

Teacher assessment

Key stages 2 and 3

Mathematics: learner profile

Level 5

Foreword

This profile is intended to help teachers see the type of evidence that can be used to take to a cluster meeting, in order to support the best-fit judgements made. It also clearly demonstrates that the evidence predominantly lies in a pupil's book and hence is what is already available to the teacher.

The profile also includes a detailed commentary which provides clarity on why the best-fit judgment was awarded. There is no suggestion or expectation that a learner profile is produced for every pupil in the cohort or that teachers write such an extensive commentary.

**Learner
Profile
Mathematics
Level 5**

8-9-14

L.O: To use and apply place value

1. $\underline{3}502 = 3000 \checkmark$

2. $7\underline{3}21 = 300 \checkmark$

3. $4\underline{3},062 = 3000 \checkmark$

4. $\underline{3}9,540 = 30,000 \checkmark$

5. $\underline{3}05,642 = 300,000 \checkmark$

6. $6\underline{3}0,790 = 30,000 \checkmark$

7. $7456 \checkmark$

8. $2902 \checkmark$

9. $547,492 \checkmark$

10. $92,404 \checkmark$

11. $6,065,400 \checkmark$

12. $7409 \checkmark$

13. $10,350 \checkmark$

14. $293,161 \checkmark$

15. $164,050 \checkmark$

16. $6,000,007 \checkmark$

17. seven thousand and one \checkmark

18. five thousand and ninety \checkmark

19. eight thousand and three hundred \checkmark

20. two hundred and seven thousand and one. ✓✓

21. five hundred and ninety-four thousand and ninety. ✓✓

22. five million, eight hundred and seventy thousand, ^{and} three hundred. ✓✓

23. ten million, three hundred and forty-five thousand, three hundred and two. ✓✓

24. 4 hundreds ✓✓

25. 41 hundreds? 4 thousands

26. 20, 345 - smallest
54, 320 - biggest ✓✓

two million,
three hundred and
sixty-four thousand

27. 202, 367, 800 - smallest
8, 763, 200 - biggest ✓✓

28. $3642 = 3000 + 600 + 40 + 2$ ✓✓

29. $5967 = 5000 + 900 + 60 + 7$ ✓✓

30. $4529 = 4000 + 500 + 20 + 9$ ✓✓

31. $1398 = 1000 + 300 + 90 + 8$ ✓✓

✓✓ Gwaith da

A good understanding of place value.

Can you write Q26 and Q27 in words?

26
twenty thousand, three hundred and
forty five - smallest

sixty-four thousand, three hundred and
twenty

9-9-14
LO: Multiply numbers and decimals by 10, 100 and 1000.

1. $34 \times 10 = 340$ ✓

2. $51 \times 100 = 5100$ ✓

3. $530 \times 10 = 5300$ ✓

4. $3120 \times 10 = 31,200$ ✓

5. $4501 \times 100 = 450,100$ ✓

6. $43,980 \times 10 = 439,800$ ✓

7. $3.2 \times 10 = 32$ ✓

8. $5.4 \times 100 = 540$ ✓

9. $4.2 \times 1000 = 4200$ ✓

10. $3.87 \times 10 = 38.7$ ✓

11. $4.81 \times 100 = 481$ ✓

12. $0.8 \times 10 = 8$ ✓

13. $0.5 \times 100 = 50$ ✓

14. $0.04 \times 10 = 0.4$ ✓

15. $0.08 \times 100 = 8$ ✓

16. $0.82 \times 100 = 82$ ✓

17. $0.34 \times 10 = 3.4$ ✓

18. $7.3 \times 10 = 73$ ✓

19. $3.1 \times 100 = 310$ ✓

20. $10 \times 45 = 450$ ✓

21. $10 \times 420 = 4200$ ✓

22. $1000 \times 56 = 56,000$ ✓

23. $9 \times 400 = 3600$ ✓

24. $8 \times 60 = 480$ ✓

Ardderchog!
Great multiplication.

25. $70 \times 5 = 350$ ✓

26. $300 \times 4 = 1200$ ✓

27. $200 \times 7 = 1400$ ✓

28. $20 \times 30 = 600$ ✓

29. $30 \times 400 = 12,000$ ✓

30. $40 \times 700 = 28,000$ ✓

31. $50 \times 900 = 45,000$ ✓

32. $0.4 \times 40 = 16$ ✓

33. $0.6 \times 90 = 54$ ✓

34. $0.4 \times 20 = 8$ ✓

35. $0.3 \times 300 = 90$ ✓

36. $0.2 \times 400 = 80$ ✓

37. $0.6 \times 300 = 180$ ✓

10-10-2014

L0 - Divide numbers and decimals by 10, 100 and 1000

1. $3 \div 10 = 0.3 \checkmark$

2. $7 \div 100 = 0.07 \checkmark$

3. $6 \div 1000 = 0.006 \checkmark$

4. $39 \div 10 = 3.9 \checkmark$

5. $41 \div 100 = 0.41 \checkmark$

6. $52 \div 1000 = 0.052 \checkmark$

7. $459 \div 10 = 45.9 \checkmark$

8. $310 \div 100 = 3.1 \checkmark$

9. $501 \div 100 = 5.01 \checkmark$

10. $5500 \div 10 = 550 \checkmark$

11. $3942 \div 10 = 394.2 \checkmark$

12. $3600 \div 100 = 36 \checkmark$

13. $8001 \div 100 = 80.01 \checkmark$

14. $8200 \div 1000 = 8.2 \checkmark$

15. $9003 \div 1000 = 9.003 \checkmark$

16. $7200 \div 100 = 72 \checkmark$

17. $3900 \div 10 = 390 \checkmark$

18. $72,000 \div 1000 = 72 \checkmark$

Bendigedig
Nod gyflawnu.

15-9-2014

Lo - To use the expanded and compact method of addition

$$\begin{array}{r} 1.) \quad 46780 \\ + \quad 3883 \checkmark \\ \hline 3 \\ 160 \\ 1500 \\ 9000 \\ 40000 \\ \hline 50663 \\ 1 \quad 1 \end{array}$$

$$\begin{array}{r} 5.) \quad 50391 \checkmark \\ + \quad 9768 \\ \hline 59 \\ 150 \\ 1000 \\ 9000 \\ 50000 \\ \hline 60159 \\ 1 \end{array}$$

$$\begin{array}{r} 2.) \quad 50053 \\ + \quad 59096 \checkmark \\ \hline 9 \checkmark \\ 140 \\ 000 \\ 9000 \\ 100000 \\ \hline 109049 \\ 1 \end{array}$$

$$\begin{array}{r} 6.) \quad 77204 \checkmark \\ + \quad 3884 \\ \hline 81088 \\ 1 \quad 1 \end{array}$$

$$\begin{array}{r} 7.) \quad 91365 \checkmark \\ + \quad 79758 \\ \hline 181123 \\ 1 \quad 1 \quad 1 \quad 1 \end{array}$$

$$\begin{array}{r} 3.) \quad 83471 \checkmark \\ + \quad 2973 \\ \hline 4 \\ 140 \\ 1300 \\ 5000 \\ 80000 \\ \hline 86444 \end{array}$$

$$\begin{array}{r} 8.) \quad 86172 \\ + \quad 75096 \\ \hline 161268 \checkmark \\ 1 \quad 1 \end{array}$$

$$\begin{array}{r} 9.) \quad 10000 \checkmark \\ + \quad 9008 \\ \hline 19008 \end{array}$$

$$\begin{array}{r} 4.) \quad 95046 \checkmark \\ + \quad 44958 \\ \hline 14 \\ 90 \\ 900 \\ 9000 \\ 130000 \\ \hline 140004 \\ 1 \quad 1 \quad 1 \end{array}$$

$$\begin{array}{r} 10.) \quad 60040 \checkmark \\ + \quad 50090 \\ \hline 111130 \\ 1 \end{array}$$

// Great addition using the expanded and compact methods.

Da ian 6

Self-assessed using calculator

1609.14

10 - To subtract using the compact method

$$\begin{array}{r} 1. \quad 45 \overset{9}{\cancel{8}} \overset{15}{8} 7 \\ - 1068 \\ \hline 3999 \end{array}$$

$$\begin{array}{r} 1068 \\ + 3999 \\ \hline 5067 \\ \hline 111 \end{array} \quad \checkmark$$

$$\begin{array}{r} 2. \quad 3 \overset{8}{\cancel{4}} \overset{1}{3} \overset{14}{8} 4 \\ - 677 \\ \hline 3717 \end{array}$$

$$\begin{array}{r} 3717 \\ + 677 \\ \hline 4394 \\ \hline 11 \end{array} \quad \checkmark$$

$$\begin{array}{r} 3. \quad 7 \overset{1}{\cancel{8}} \overset{15}{8} 5 \\ - 3986 \\ \hline 4279 \end{array}$$

$$\begin{array}{r} 4279 \\ + 3986 \\ \hline 8265 \\ \hline 111 \end{array} \quad \checkmark$$

$$\begin{array}{r} 4. \quad 7 \overset{5}{\cancel{8}} \overset{1}{3} 9 \\ - 545 \\ \hline 7094 \end{array}$$

$$\begin{array}{r} 7094 \\ + 545 \\ \hline 7639 \\ \hline 1 \end{array} \quad \checkmark$$

$$\begin{array}{r} 5. \quad 8 \overset{14}{\cancel{9}} \overset{1}{5} \overset{1}{5} 8 \\ - 2996 \\ \hline 6562 \end{array}$$

$$\begin{array}{r} 6562 \\ + 2996 \\ \hline 9558 \\ \hline 11 \end{array} \quad \checkmark$$

✓ Gwaith da
Nod Gyflawn

17.9.14
 L.O-1. multiply HTUXU and TUXTU using the grid method.

1.) $34 \times 9 = 306$

X	30	4			
9	270	36	+	36	✓
				306	

2.) $45 \times 8 = 360$

X	40	5			
8	320	40	+	40	✓
				360	

3.) $36 \times 10 = 360$

X	30	6			
10	300	60	+	60	✓
				360	

4.) $47 \times 11 = 517$

X	40	7			
10	400	70	+	70	
1	40	7		40	✓
				7	
				517	

5.) $26 \times 12 = 330$

X	20	6			
10	200	60	+	60	
2	40	30		40	
				30	?
				330	

$$6.) 54 \times 12 = 648$$

X 50	4	500
10	500	+ 100
2	100	40
		8
		648

$$7.) 177 \times 9 = 1593$$

X 100	70	7	900
9	900	630	+ 630
			63
			1593

$$8.) 187 \times 8 = 1496$$

X 100	80	7	800
8	800	640	+ 640
			56
			1496

$$9.) 288 \times 9 = 2592$$

X 200	80	8	1800
9	1800	720	+ 720
			72
			2592

$$10.) 388 \times 7 = 2716$$

X 300	80	8	2100
7	2100	560	+ 560
			56
			2716

• Bendigedig
Super multiplication using
the grid method.

↳ O - To multiply $\begin{matrix} 22-9-14 \\ HTU \times TU \end{matrix}$ using the grid method.

LO - To multiply $HTV \times TV$ using the grid method.

$$\begin{array}{r} 1. \quad 406 \\ \times \quad 35 \\ \hline \end{array}$$

$$\begin{array}{r} \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} \text{X} \mid 400 \mid 0 \mid 6 \\ 30 \mid 12000 \mid 0 \mid 180 \\ \hline 5 \mid 2000 \mid 0 \mid 30 \end{array} \quad + \quad \begin{array}{r} 12000 \checkmark \\ 2000 \\ 180 \\ 30 \\ 0 \\ 0 \\ \hline 14210 \end{array}$$

$$\begin{array}{r} 2. \quad 308 \\ \times \quad 25 \\ \hline \end{array}$$

x	2	5
---	---	---

$$\begin{array}{r} \text{X} \quad 3000 \mid 08 \\ 20 \quad 6000 \mid 0160 + 1500 \\ 5 \quad 1500 \mid 040 \\ \hline 4700 \end{array}$$

$$\begin{array}{r} 3. \quad 607 \\ \times \quad 25 \\ \hline \end{array}$$

x		2	5
---	--	---	---

$$\begin{array}{r} \times 60007 \quad 12000 \checkmark \\ 20120000140 + 3000 \\ \hline 53000035 \\ \hline 15175 \end{array}$$

$$\begin{array}{r} 4. \quad 568 \\ \times \quad 34 \\ \hline \end{array}$$

\times	500	60	8
30	15000	1800	240
4	2000	240	32

 $+$

1	5000	✓
2000		
1800		
240		
240		
32		
<hr/>		
1	9312	
1		

$$\begin{array}{r} 5. \quad 736 \\ \times \quad 43 \\ \hline \end{array}$$

\times	700	30	6
28000	1200	240	
40			
3	2100	90	18

 $+$

28000	✓
2100	
1200	
240	
90	
18	
<hr/>	
3	1648
1	

$$\begin{array}{r} 6. \quad 584 \\ \times \quad 36 \\ \hline \end{array}$$

\times	500	80	4
30	15000	2400	120
6	3000	480	24

 $+$

1	5000	✓
3000		
2400		
480		
120		
24		
<hr/>		
2	1024	
1		

$$\begin{array}{r} 7. \quad 478 \\ \times \quad 45 \\ \hline \end{array}$$

X	400	70	8	1	6000	✓
40	16000	2800	320	+	2800	
					2000	
					350	
					320	
					40	
					<u>21510</u>	
					11	

✓ Sely assessed
with a calculator

✓✓ Ardderchog
NOD Gyflawni ✓

$$8. \quad 394$$

23.9-14

Lo-To multiply using the compact method.

$$\begin{array}{r} 1.) \quad 867 \checkmark \\ \times \quad 7 \\ \hline 6069 \\ 44 \\ \hline \end{array}$$

$$\begin{array}{r} 1.) \quad 132 \checkmark \\ \times \quad 21 \\ \hline 132 \\ 2640 \\ \hline 2772 \\ \hline \end{array}$$

$$\begin{array}{r} 2.) \quad 749 \checkmark \\ \times \quad 11 \\ \hline 749 \\ 7490 \\ \hline 8239 \\ \hline \end{array}$$

$$\begin{array}{r} 2.) \quad 242 \checkmark \\ \times \quad 21 \\ \hline 242 \\ 4840 \\ \hline 5082 \\ \hline \end{array}$$

$$\begin{array}{r} 3.) \quad 788 \checkmark \\ \times \quad 9 \\ \hline 7092 \\ 77 \\ \hline \end{array}$$

$$\begin{array}{r} 3.) \quad 314 \checkmark \\ \times \quad 21 \\ \hline 314 \\ 6280 \\ \hline 6594 \\ \hline \end{array}$$

$$\begin{array}{r} 4.) \quad 939 \checkmark \\ \times \quad 12 \\ \hline 1878 \\ 9390 \\ \hline 11268 \\ \hline \end{array}$$

$$\begin{array}{r} 4.) \quad 424 \checkmark \\ \times \quad 21 \\ \hline 424 \\ 8480 \\ \hline 8904 \\ \hline \end{array}$$

$$\begin{array}{r} 5.) \quad 849 \checkmark \\ \times \quad 11 \\ \hline 849 \\ 8490 \\ \hline 9339 \\ \hline \end{array}$$

$$\begin{array}{r} 5.) \quad 522 \checkmark \\ \times \quad 31 \\ \hline 522 \\ 15660 \\ \hline 16182 \\ \hline \end{array}$$

✓ Super multiplication
using the compact method
Well done

$$\begin{array}{r} 6.) \quad 699 \checkmark \\ \times \quad 12 \\ \hline 1398 \\ 6990 \\ \hline 8388 \\ \hline \end{array}$$

24-9-14

Lo - To divide using the chunking method.

1.) $2 \overline{) 103} = 51 \text{ r } 3$ ✓
 Diagram: A number line from 0 to 103. Arrows show chunks of 20 added: 0 to 20 (x20), 20 to 40 (x20), 40 to 80 (x20), 80 to 100 (x10), and 100 to 103 (x1).

2.) $3 \overline{) 995} = 331 \text{ r } 2$ ✓
 Diagram: A number line from 0 to 995. Arrows show chunks of 300 added: 0 to 900 (x300), 900 to 990 (x30), and 990 to 995 (x1).

3.) $4 \overline{) 206} = 51 \text{ r } 2$ ✓
 Diagram: A number line from 0 to 206. Arrows show chunks of 50 added: 0 to 200 (x50), and 200 to 206 (x1).

4.) $5 \overline{) 207} = 41 \text{ r } 2$ ✓
 Diagram: A number line from 0 to 207. Arrows show chunks of 40 added: 0 to 200 (x40), and 200 to 207 (x1).

5.) $6 \overline{) 308} = 51 \text{ r } 2$ ✓
 Diagram: A number line from 0 to 308. Arrows show chunks of 50 added: 0 to 300 (x50), and 300 to 308 (x1).

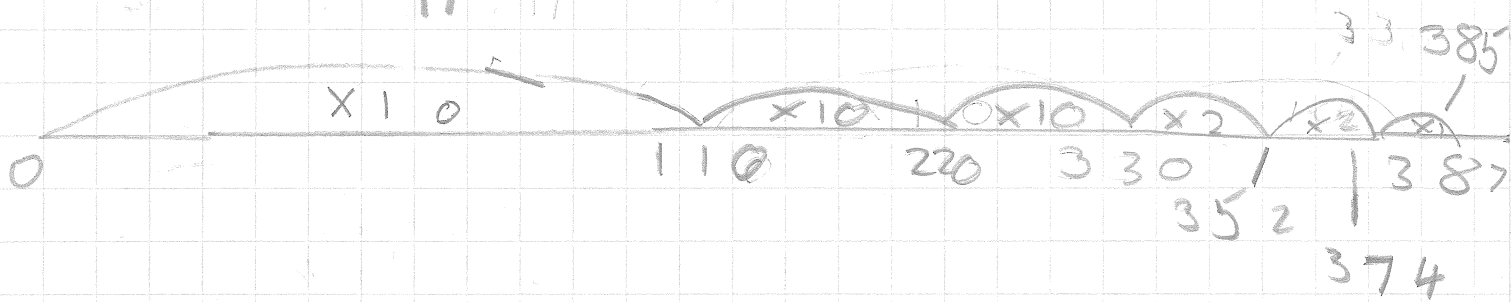
6.) $3 \overline{) 900} = 300$ ✓
 Diagram: A number line from 0 to 900. An arrow shows a single chunk of 300 added: 0 to 900 (x300).

✓ Super division using the chunking method.
 Well done.

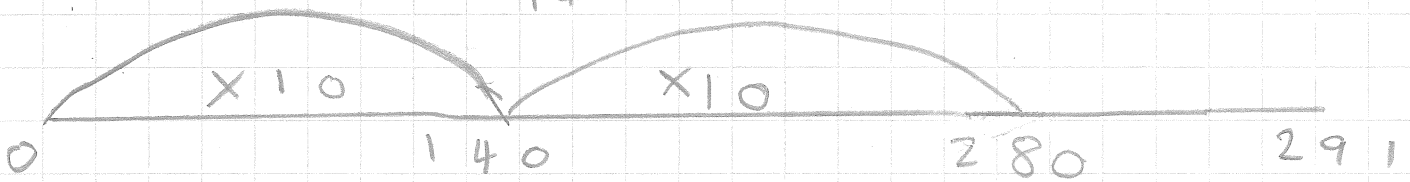
25-9-14

LO = To divide using the chunking method

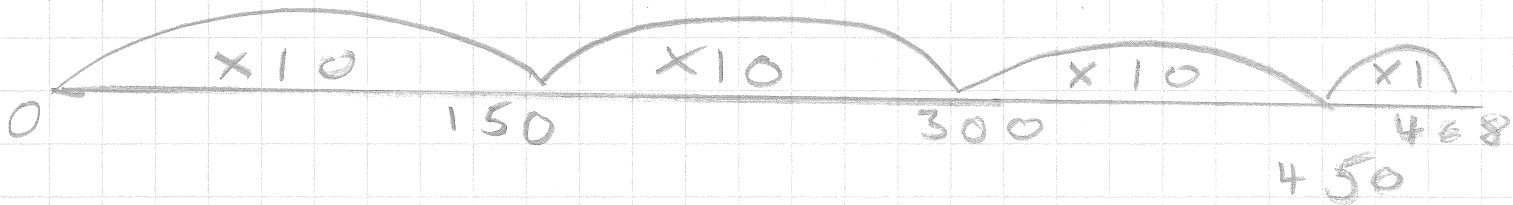
1) $11 \overline{) 387} = 35 \frac{2}{11} \checkmark$



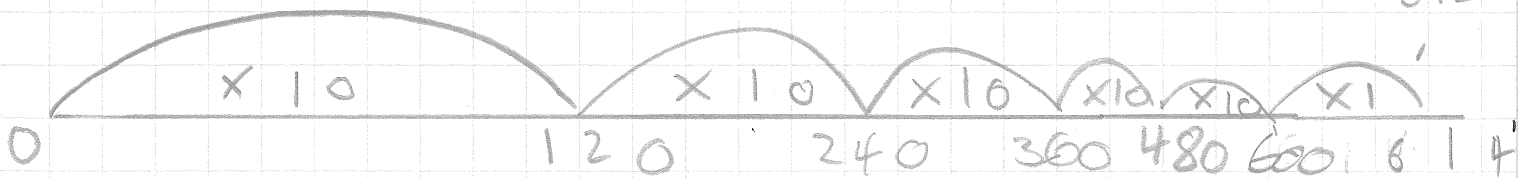
2) $14 \overline{) 291} = 20 \frac{11}{14} \checkmark$



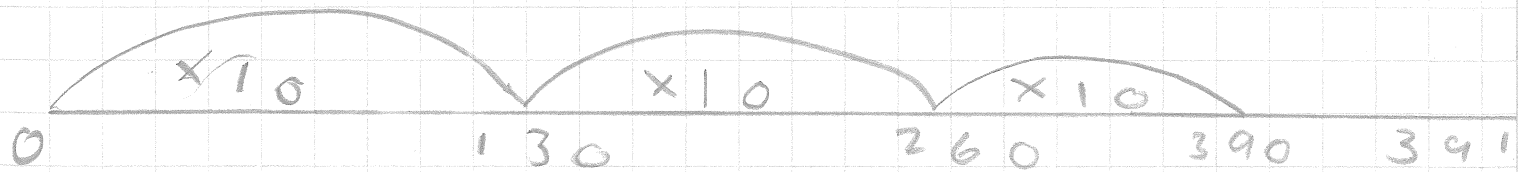
3) $15 \overline{) 468} = 31 \frac{3}{5} \checkmark$



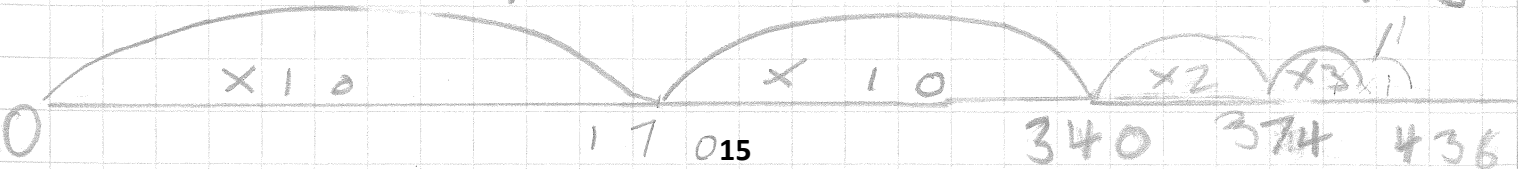
4) $12 \overline{) 614} = 51 \frac{2}{6} \checkmark$



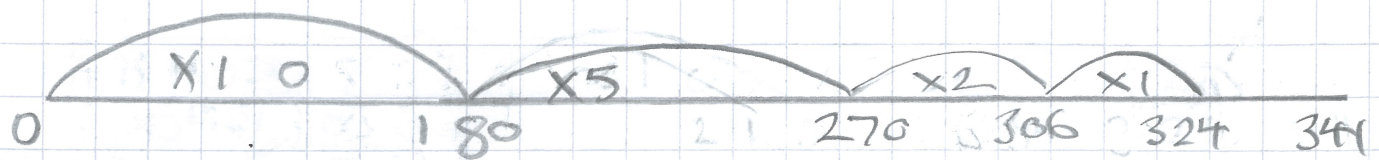
5) $13 \overline{) 391} = 30 \frac{1}{13} \checkmark$



6) $17 \overline{) 436} = 25 \frac{11}{17} \checkmark$

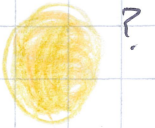


$$1,183 \overline{)41} = 18 \frac{7}{8} \checkmark \checkmark$$



Self assessed

~ you
can do it!



✓ Great division by 2 digits using
the chunking method.

29-9-14

60 - To divide using the chunking method.

$$\begin{array}{r}
 1. \quad 12 \overline{) 456} = 38 \\
 \underline{- 240} \quad (20 \times) \\
 1816 \\
 \underline{- 120} \quad (10 \times) \quad \checkmark \\
 96 \\
 \underline{- 96} \quad (8 \times) \\
 0
 \end{array}$$

$$\begin{array}{r}
 2. \quad 11 \overline{) 8138} = 58 \\
 \underline{- 550} \quad (50 \times) \\
 88 \\
 \underline{- 88} \quad (8 \times) \quad \checkmark \\
 0
 \end{array}$$

$$\begin{array}{r}
 3. \quad 13 \overline{) 689} = 53 \\
 \underline{- 260} \quad (20 \times) \\
 3429 \\
 \underline{- 260} \quad (20 \times) \\
 169 \\
 \underline{- 130} \quad (10 \times) \\
 39 \\
 \underline{- 26} \quad (2 \times) \quad \checkmark \\
 13 \\
 \underline{- 13} \quad (1 \times) \\
 0
 \end{array}$$

$$\begin{array}{r}
 4. \quad 1 \overline{) 824} = 12 \\
 \underline{- 880} \quad (80 \times) \quad ? \\
 44 \\
 \underline{- 44} \quad (4 \times) \\
 0
 \end{array}$$

\checkmark Da ian.

$$\begin{array}{r}
 5. \quad 13 \overline{) 507} = 48 \frac{3}{13} \\
 \underline{- 260} \quad (20 \times) \\
 367 \\
 \underline{- 260} \quad (20 \times) \quad ? \\
 107 \\
 \underline{- 52} \quad (4 \times) \\
 55 \\
 \underline{- 52} \quad (4 \times) \\
 3
 \end{array}$$

$$\begin{array}{r}
 6. \quad 12 \overline{) 876} = 73 \\
 \underline{- 120} \quad (60 \times) \\
 156 \\
 \underline{- 120} \quad (10 \times) \quad \checkmark \\
 36 \\
 \underline{- 36} \quad (3 \times) \\
 0
 \end{array}$$

$$\begin{array}{r}
 7. \quad 13 \overline{) 871} = 67 \quad \checkmark \\
 \underline{- 390} \quad (30 \times) \\
 481 \\
 \underline{- 260} \quad (20 \times) \\
 1821 \\
 \underline{- 130} \quad (10 \times) \\
 8911 \\
 \underline{- 65} \quad (5 \times) \\
 26 \\
 \underline{- 26} \quad (2 \times) \\
 0
 \end{array}$$

$$\begin{array}{r}
 8. \quad 36 \overline{) 468} = 14 \frac{4}{36} \\
 \underline{- 360} \quad (10 \times) \\
 108 \\
 \underline{- 72} \quad (2 \times) \quad ? \\
 76 \\
 \underline{- 72} \quad (2 \times) \\
 4
 \end{array}$$

Can you look at Q4 and Q5 again please.

Take care with your calculations.

9.14

30-9-14

LO - To use the compact method to subtract and add decimals

$$\begin{array}{r}
 1) \text{ £ } 5.83 \\
 + \text{ £ } 9.49 \\
 \hline
 \text{ £ } 15.32
 \end{array}
 \quad
 \begin{array}{r}
 \overset{0}{\cancel{\text{£ } 15.83}} \\
 \overset{14}{\phantom{\cancel{\text{£ } 15.83}}} \\
 \overset{12}{\phantom{\cancel{\text{£ } 15.83}}} \\
 \hline
 \text{ £ } 9.49
 \end{array}
 \quad \checkmark$$

$$\begin{array}{r}
 2) \text{ £ } 17.55 \\
 + \text{ £ } 14.02 \\
 \hline
 \text{ £ } 31.57
 \end{array}
 \quad
 \begin{array}{r}
 \overset{2}{\cancel{\text{£ } 17.57}} \\
 \overset{1}{\phantom{\cancel{\text{£ } 17.57}}} \\
 \hline
 \text{ £ } 14.02
 \end{array}
 \quad \checkmark$$

$$\begin{array}{r}
 3) \text{ £ } 10.78 \\
 + \text{ £ } 22.22 \\
 \hline
 \text{ £ } 33.00
 \end{array}
 \quad
 \begin{array}{r}
 \overset{2}{\cancel{\text{£ } 33.10}} \\
 \overset{9}{\phantom{\cancel{\text{£ } 33.10}}} \\
 \hline
 \text{ £ } 22.22
 \end{array}
 \quad \checkmark$$

$$\begin{array}{r}
 4) \text{ £ } 96.65 \\
 + \text{ £ } 0.61 \\
 \hline
 \text{ £ } 97.26
 \end{array}
 \quad
 \begin{array}{r}
 \overset{*}{\cancel{\text{£ } 97.26}} \\
 \overset{0}{\phantom{\cancel{\text{£ } 97.26}}} \\
 \overset{61}{\phantom{\cancel{\text{£ } 97.26}}} \\
 \hline
 \text{ £ } 0.61
 \end{array}
 \quad \times$$

$$\begin{array}{r}
 5) \text{ £ } 64.71 \\
 + \text{ £ } 50.30 \\
 \hline
 \text{ £ } 115.01
 \end{array}
 \quad
 \begin{array}{r}
 \overset{0}{\cancel{\text{£ } 115.01}} \\
 \overset{4}{\phantom{\cancel{\text{£ } 115.01}}} \\
 \hline
 \text{ £ } 50.30
 \end{array}
 \quad \checkmark$$

$$\begin{array}{r}
 6) \text{ £ } 81.26 \\
 + \text{ £ } 41.37 \\
 \hline
 \text{ £ } 122.63
 \end{array}
 \quad
 \begin{array}{r}
 \overset{0}{\cancel{\text{£ } 122.63}} \\
 \overset{4}{\phantom{\cancel{\text{£ } 122.63}}} \\
 \overset{13}{\phantom{\cancel{\text{£ } 122.63}}} \\
 \hline
 \text{ £ } 41.37
 \end{array}
 \quad \checkmark$$

$$\begin{array}{r}
 7) \text{ £ } 484.39 \\
 + \text{ £ } 93.85 \\
 \hline
 \text{ £ } 578.24
 \end{array}
 \quad
 \begin{array}{r}
 \overset{4}{\cancel{\text{£ } 578.24}} \\
 \overset{7}{\phantom{\cancel{\text{£ } 578.24}}} \\
 \overset{11}{\phantom{\cancel{\text{£ } 578.24}}} \\
 \hline
 \text{ £ } 93.85
 \end{array}
 \quad \checkmark$$

$$\begin{array}{r}
 8) \text{ £ } 154.06 \\
 + \text{ £ } 113.72 \\
 \hline
 \text{ £ } 267.78
 \end{array}
 \quad
 \begin{array}{r}
 \overset{4}{\cancel{\text{£ } 267.78}} \\
 \overset{7}{\phantom{\cancel{\text{£ } 267.78}}} \\
 \overset{11}{\phantom{\cancel{\text{£ } 267.78}}} \\
 \hline
 \text{ £ } 113.72
 \end{array}
 \quad \checkmark$$

$$\begin{array}{r}
 9.) \quad £138.28 \quad £2\overset{3}{11}.7\overset{7}{14} \\
 + £103.56 \quad - £103.56 \\
 \hline
 £241.84 \quad \underline{138.28} \quad \checkmark
 \end{array}$$

$$\begin{array}{r}
 10.) \quad £292.04 \quad £5\overset{4}{10}\overset{2}{3}.1\overset{9}{3} \\
 + £210.99 \quad - £210.99 \\
 \hline
 503.03 \quad \underline{292.04} \quad \checkmark
 \end{array}$$

Good try I wrong but well done.

$\frac{9}{10}$ well done!

✓ Ardderchog
Excellent subtraction and addition
of decimals.

* Take a look at Q4 again.

1 - 1 0 - 1 4

10 - 10 subtract decimals using the compact method.

$$\begin{array}{r} \overset{0}{\cancel{4}} \overset{9}{\cancel{8}} 48 \\ - \cancel{4} 5.83 \\ \hline \cancel{4} 4.95 \end{array} \quad + \quad \begin{array}{r} \cancel{4} 4.95 \\ + \cancel{4} 5.83 \\ \hline 10.78 \\ 1 \end{array}$$

$$\begin{array}{r} \cancel{4} 93.85 \\ - \cancel{4} 50.30 \\ \hline 43.55 \end{array} \quad + \quad \begin{array}{r} \cancel{4} 43.55 \\ + \cancel{4} 50.30 \\ \hline 93.85 \end{array}$$

$$\begin{array}{r} \overset{7}{\cancel{4}} \overset{13}{\cancel{8}} 139 \\ - \cancel{4} 374.63 \\ \hline 109.76 \end{array} \quad + \quad \begin{array}{r} \cancel{4} 109.76 \\ + \cancel{4} 374.63 \\ \hline 484.39 \\ 11 \end{array}$$

$$\begin{array}{r} \overset{3}{\cancel{4}} \overset{10}{\cancel{4}} \overset{12}{\cancel{8}} 17 \\ - \cancel{4} 9.49 \\ \hline 31.88 \end{array} \quad + \quad \begin{array}{r} \cancel{4} 31.88 \\ + \cancel{4} 9.49 \\ \hline 41.37 \\ 111 \end{array}$$

$$\begin{array}{r} \overset{2}{\cancel{1}} \overset{0}{\cancel{8}} 156 \\ - \cancel{4} 0.61 \\ \hline 102.95 \end{array} \quad + \quad \begin{array}{r} \cancel{4} 102.95 \\ + \cancel{4} 0.61 \\ \hline 103.56 \\ 1 \end{array}$$

$$\begin{array}{r} \overset{7}{\cancel{5}} \overset{6}{\cancel{8}} 147 \\ - \cancel{4} 103.56 \\ \hline 464.91 \end{array} \quad + \quad \begin{array}{r} \cancel{4} 464.91 \\ + \cancel{4} 103.56 \\ \hline 568.47 \\ 1 \end{array}$$

$$\begin{array}{r} \overset{7}{\cancel{1}} \overset{3}{\cancel{8}} 129 \\ - \cancel{4} 17.55 \\ \hline 120.74 \end{array} \quad + \quad \begin{array}{r} \cancel{4} 120.74 \\ + \cancel{4} 17.55 \\ \hline 138.29 \\ 1 \end{array}$$

$$\begin{array}{r} \overset{8}{\cancel{2}} \overset{11}{\cancel{9}} 104 \\ - \cancel{4} 22.22 \\ \hline 269.82 \end{array} \quad + \quad \begin{array}{r} \cancel{4} 269.82 \\ + \cancel{4} 22.22 \\ \hline 292.04 \\ 120 \end{array}$$

$$\begin{array}{r}
 9.8 \overset{9}{\cancel{8}} \overset{9}{\cancel{0}} \overset{9}{\cancel{0}} \overset{9}{\cancel{0}} . \overset{9}{\cancel{0}} \overset{9}{\cancel{1}} \\
 - \pounds 81.26 \\
 \hline
 \pounds 918.75
 \end{array}
 \quad
 \begin{array}{r}
 \pounds 918.75 \quad \checkmark \\
 + \pounds 81.26 \\
 \hline
 \pounds 1000.01 \\
 \begin{array}{cccc}
 1 & 1 & 1 & 1
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 10. \quad \pounds 8 \overset{1}{\cancel{8}} \overset{1}{\cancel{6}} . \overset{1}{\cancel{8}} \overset{1}{\cancel{6}} \\
 - \pounds 14.02 \\
 \hline
 \pounds 866.18
 \end{array}
 \quad
 \begin{array}{r}
 \pounds 866.18 \quad \checkmark \\
 + \pounds 14.02 \\
 \hline
 \pounds 880.20 \\
 \begin{array}{cc}
 1 & 1
 \end{array}
 \end{array}$$

Self assessed using
the inverse operation

✓✓ Da iawn
Great subtraction of decimals.

Lo- To multiply decimals using the compact method

$$\begin{array}{r} 1. \quad 364.27 \\ \times \quad 4 \\ \hline 1457.08 \end{array}$$

$$\begin{array}{r} 2. \quad 7951.32 \\ \times \quad 2 \\ \hline 15902.64 \end{array} \checkmark$$

$$\begin{array}{r} 3. \quad 6391.15 \\ \times \quad 8 \\ \hline 51129.20 \end{array} \checkmark$$

$$\begin{array}{r} 4. \quad 6436.34 \\ \times \quad 7 \\ \hline 45054.38 \end{array} \checkmark$$

$$\begin{array}{r} 5. \quad 8493.25 \\ \times \quad 6 \\ \hline 50959.50 \end{array} \checkmark$$

$$\begin{array}{r} 6. \quad 3421.65 \\ \times \quad 9 \\ \hline 30794.85 \end{array} \checkmark$$

Great multiplication of decimals

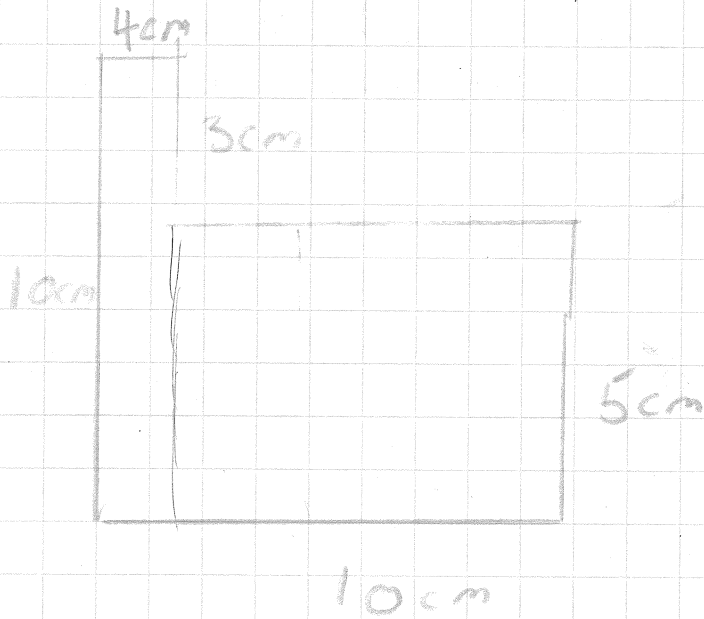
* Take a look at Q1 again please.

Adding
numbers
up! 6-10-14

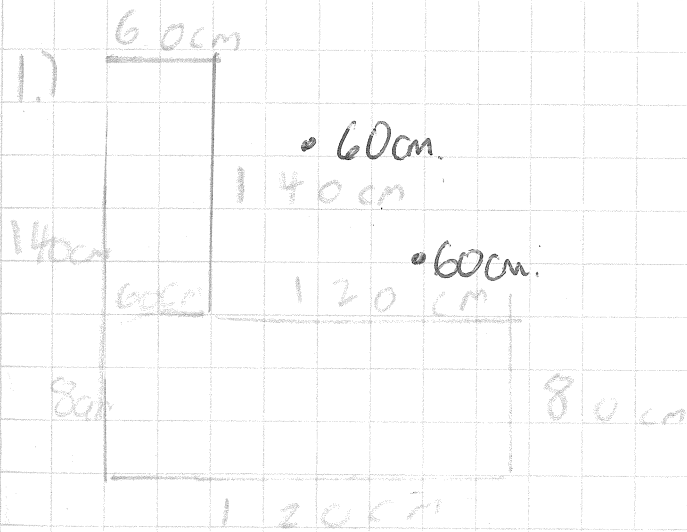
LO - To calculate missing dimensions

eg
1.)

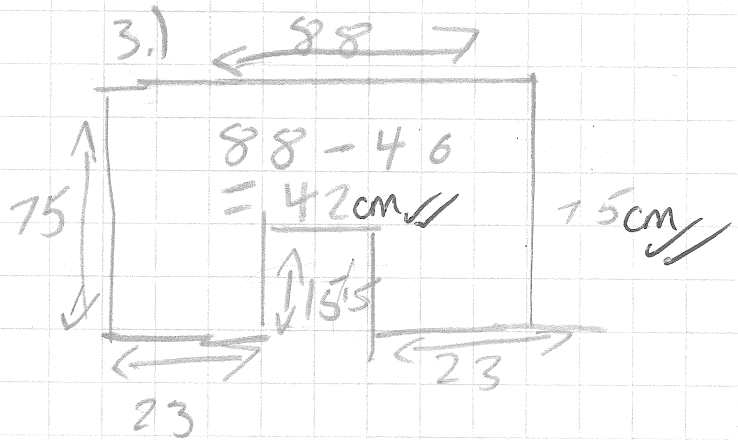
using
a calculator



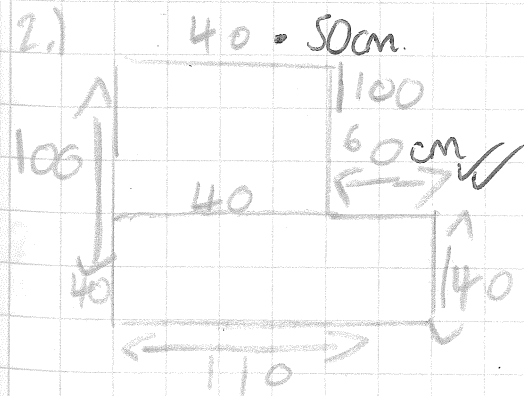
1.)



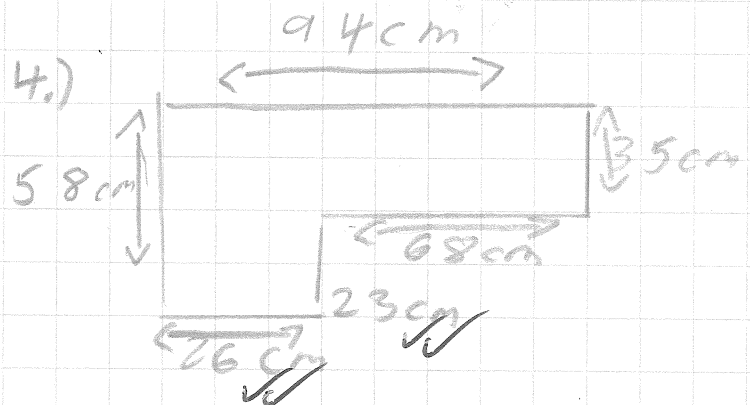
3.)



2.)



4.)



5.



You are working well towards finding the missing dimension.



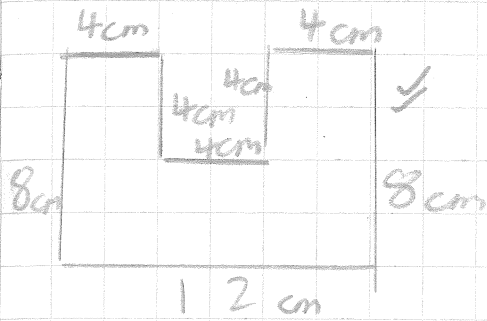
→ We can go back and recap over them again soon

8-10-14

LO - To calculate the perimeter of compound shapes.

Calculate - adding, subtracting, multiplying or dividing numbers.

Perimeter - adding numbers to see how big an area is.



Perimeter = 48 cm ✓

$4 + 4 + 4 + 4 + 4 = 20 \text{ cm}$

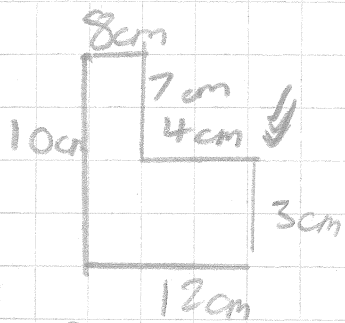
$8 + 8 = 16 \text{ cm}$

$$\begin{array}{r} 20 \\ + 16 \\ + 12 \\ \hline 48 \text{ cm} \end{array}$$

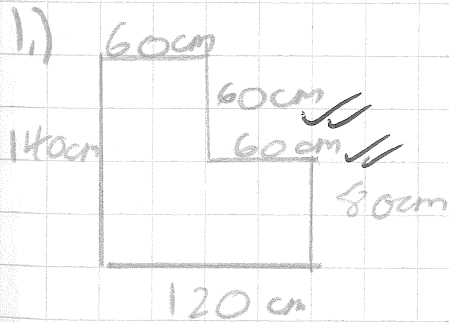
Perimeter = 47 cm ✓

$8 + 4 + 7 + 3 = 22 \text{ cm}$

$$\begin{array}{r} 22 \text{ cm} \\ + 12 \text{ cm} \\ + 10 \text{ cm} \\ \hline 44 \end{array}$$

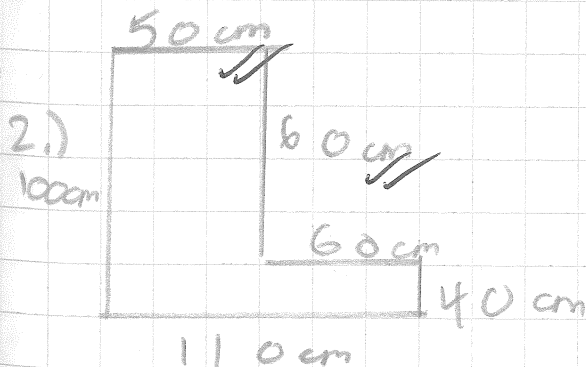


P 19



Perimeter = 80 + 60 + 60 + 60 = 260 cm

$$\begin{array}{r} 260 \text{ cm} \\ + 140 \text{ cm} \\ + 120 \text{ cm} \\ \hline 520 \text{ cm} \end{array}$$

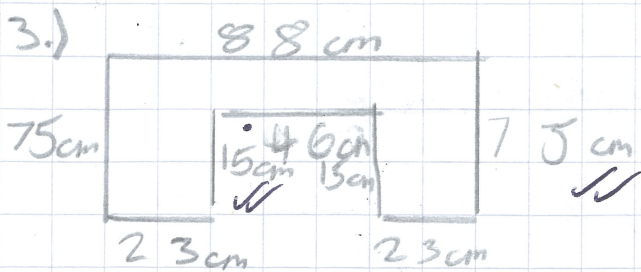


Perimeter = 420 cm

$50 + 40 = 90$

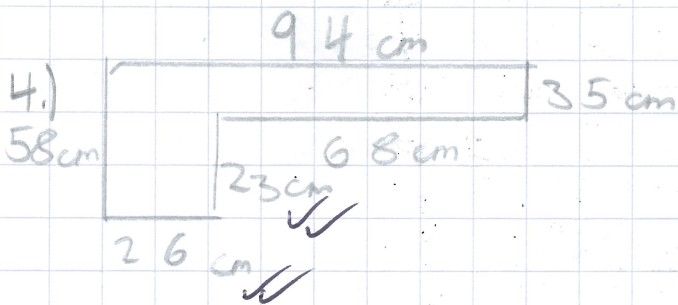
$60 + 60 = 120$

$$\begin{array}{r} 120 \\ + 110 \\ + 100 \\ + 90 \\ \hline 420 \text{ cm} \end{array}$$

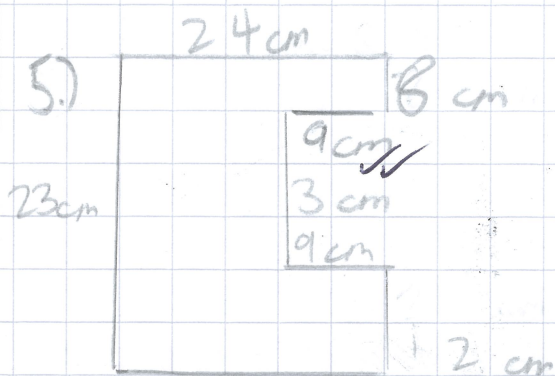


$$\begin{array}{r} \text{Perimeter} = 376 \text{ cm} \\ 7511523 \\ + 75 + 15 + 23 \\ \hline 1503062 \\ 11108 \end{array}$$

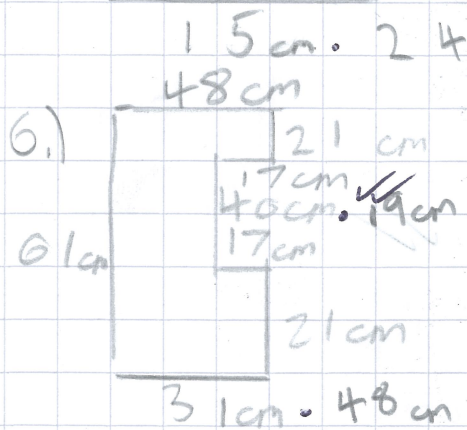
$$\begin{array}{r} 150 \\ + 108 \\ + 88 \\ + 30 \\ \hline 376 \end{array}$$



$$\begin{array}{r} \text{Perimeter} = 304 \text{ cm} \\ 2694197 \\ + 23 + 68 + 107 \\ + 58 + 35 + 301 \\ \hline 10719711 \end{array}$$



$$\begin{array}{r} \text{Perimeter} = 229 \text{ cm} \\ 249182 \\ + 23 + 8 + 47 \\ \hline 47182 \end{array}$$



$$\begin{array}{r} \text{Perimeter} = 2161 \\ 277252 \\ + 40 + 17 + 48 \\ + 17 + 19 + 42 \\ \hline 3175555 \\ 11140 \\ 277 \end{array}$$

- 1.)
- 2.)
- 3.)

Quartz day

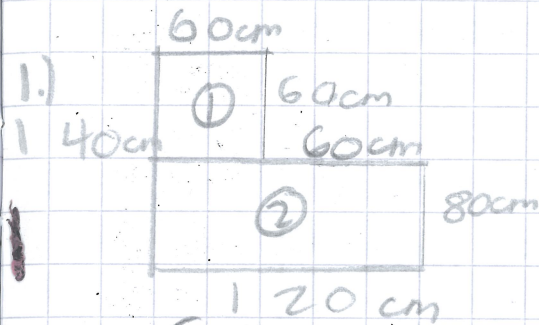
→ Have a look back your calculation for number 5.

9-10-14

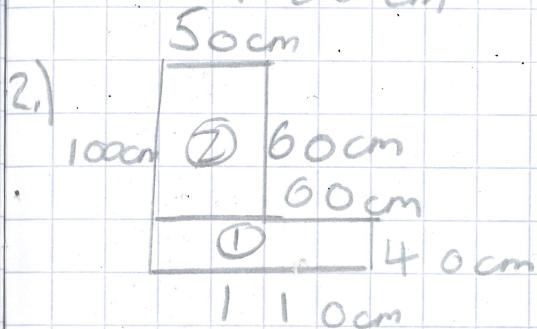
Lo- To calculate the area of compound shapes

Area - calculating the inside of a shape

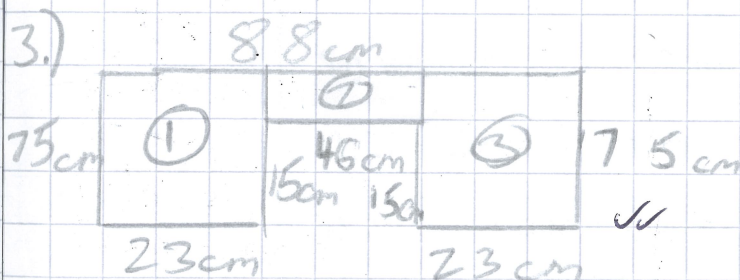
Compound shape -



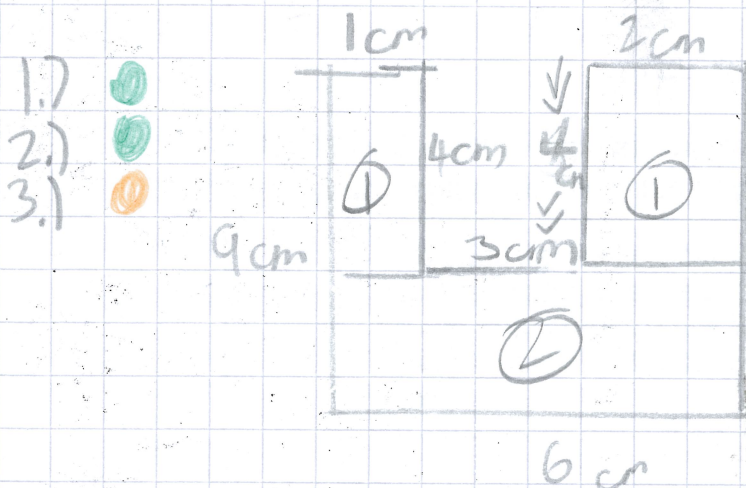
$$\begin{aligned} \text{Area} &= 60 \times 60 = 3600 \text{ cm}^2 \\ &+ 120 \times 80 = 9600 \text{ cm}^2 \\ &= 9600 \text{ cm}^2 \\ &+ 3600 \text{ cm}^2 \\ &= 13200 \text{ cm}^2 \checkmark \end{aligned}$$



$$\begin{aligned} \text{Area} &= 110 \times 40 = 4400 \text{ cm}^2 \\ &+ 60 \times 50 = 3000 \text{ cm}^2 \\ &= 4400 \text{ cm}^2 \\ &+ 3000 \text{ cm}^2 \\ &= 7400 \text{ cm}^2 \checkmark \end{aligned}$$



$$\begin{aligned} \text{Area} &= 75 \times 23 = 1725 \\ &+ 15 \times 23 = 345 \\ &= 2070 \text{ cm}^2 \checkmark \end{aligned}$$



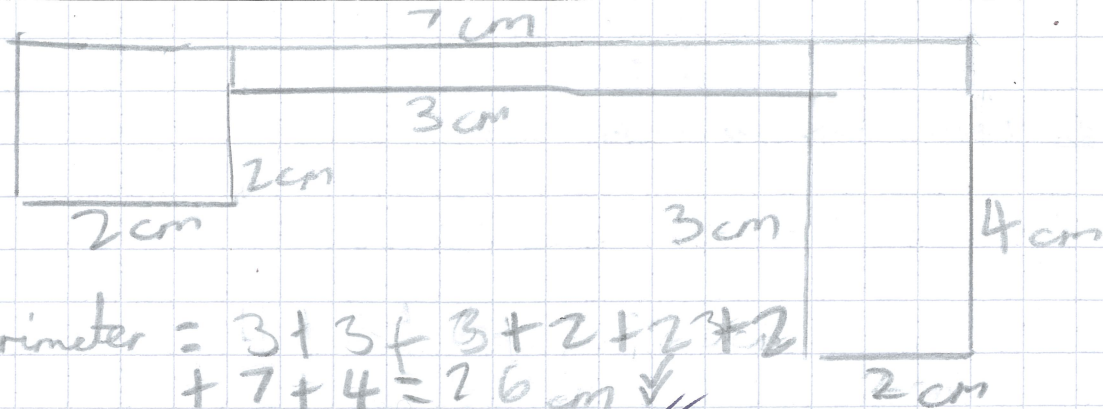
• Try these multiplications again.

$$\begin{aligned} \text{Area} &= 4 \times 1 = 4 \text{ cm}^2 \\ &+ 6 \times 5 = 30 \text{ cm}^2 \\ &+ 2 \times 4 = 8 \text{ cm}^2 \\ &= 30 + 4 + 8 = 42 \text{ cm}^2 \checkmark \end{aligned}$$

$$\begin{aligned} \text{Perimeter} &= 9 + 9 + 4 + 1 + 3 + 5 \\ &+ 2 + 6 = 38 \text{ cm} \checkmark \end{aligned}$$

A super effort -

→ Check your multiplications with a grid method if you do not feel as confident with the compact method.



$$\text{Perimeter} = 3 + 3 + 3 + 2 + 2 + 2 + 7 + 4 = 26 \text{ cm} //$$

$$\text{Area} = 3 \times 2 = 6 \text{ cm}^2$$

$$3 \times 1 = 3 \text{ cm}^2$$

$$4 \times 2 = 8 \text{ cm}^2$$

$$8 + 3 + 6 = 17 \text{ cm}^2 //$$

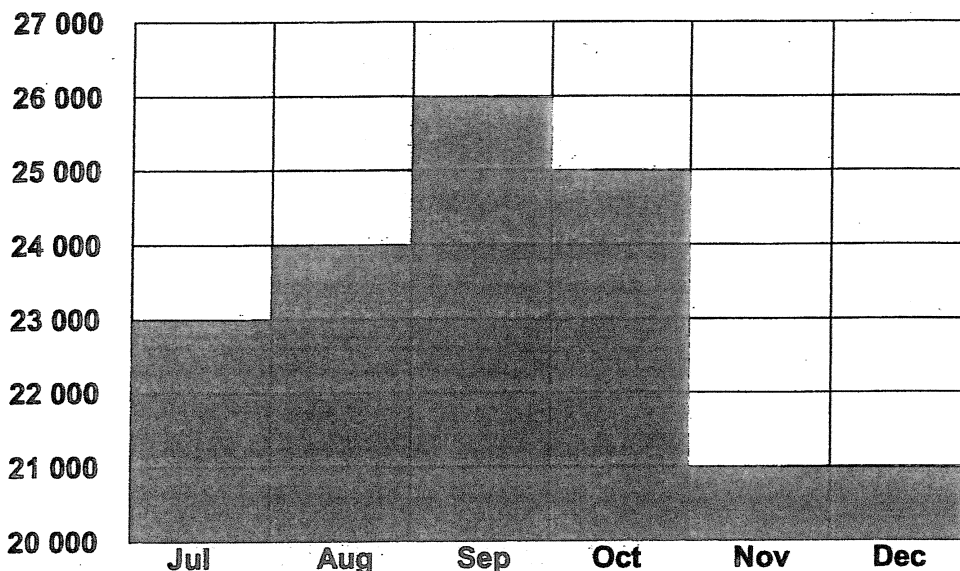
Tegan

14/10/14

L.O. To interpret a range of graphs and charts.

1. This graph shows the sales of clothes in a shop during the last six months of the year.

Sales £



Say whether these statements are true or false:

- a) The sales in September were twice as much as in July. **F //**
b) More was sold in October than in November and December together. **F //**
c) Sales in September were six times as much as in November. **F //**

False

- d) Now draw the graph again, this time starting at £0 on the sales axis. How is your graph different to the one above?

This page shows how careful you need to be when reading figures from graphs. Look very carefully at the scales on the axes!



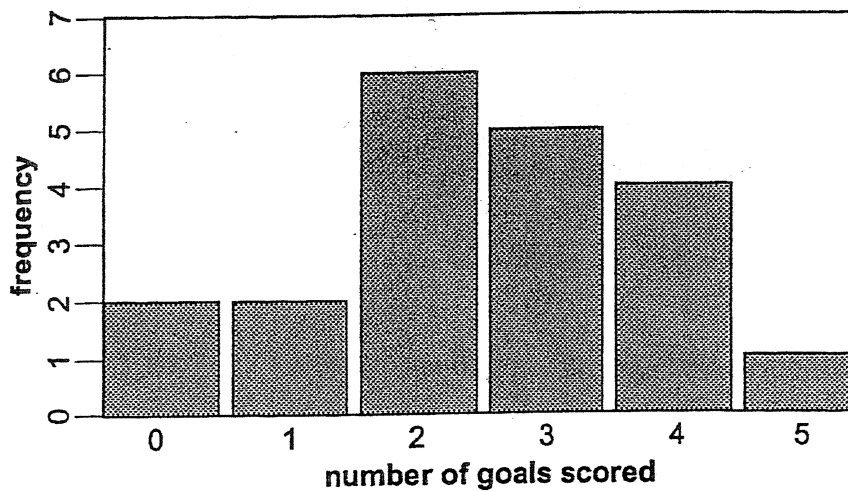
Da iann

Excellent interpretation of the different types of graphs/charts.

Goals

Goals scored by Harriers

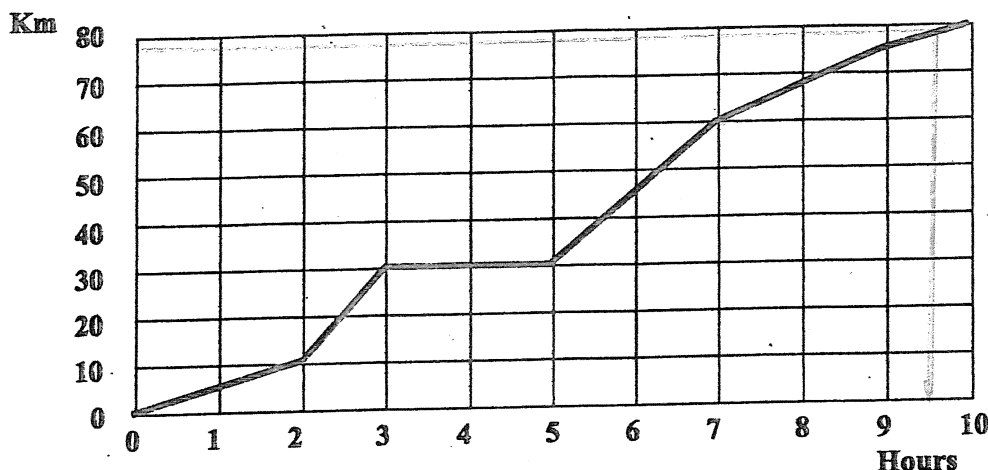
This bar chart shows the number of goals scored by Harriers in last season's matches.



- 1 What was the highest number of goals Harriers scored in a match? 5 //
- 2 How many matches in total did Harriers play? 20 //
- 3 In how many matches did Harriers score more than three goals? 5 //
- 4 What was the most common number of goals scored (mode)? 2 //
- 5 How likely are Harriers to score seven goals in a match when they play in the same league this season? Very Unlikely //

Extension Work

The graph shows the distance a cyclist rode in a time of 10 hours.

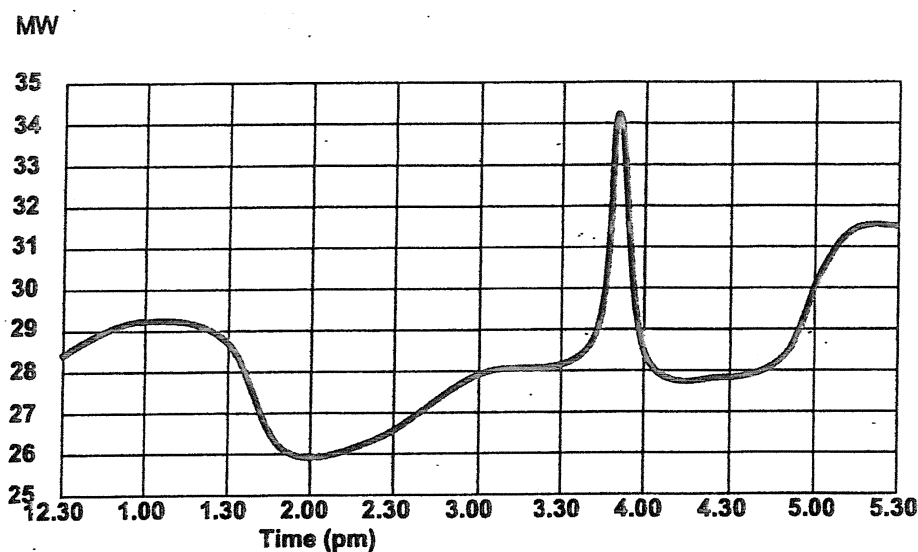


Answer these questions:

- a) How far was the cyclist from the starting point after two hours? 10km //
- b) How far was she from the starting point after seven hours? 60km //
- c) What was the cyclist doing between the third and the fifth hours? Having a rest //
- d) How far did she cycle in the ten hours? 80km //
- e) What was her average speed over the journey? 8 km per hour //
- f) Between which hours was she cycling fastest? 2-3 hours //
- g) What was her average speed when she was cycling fastest? 20 km per hour //
- h) Estimate how far she had gone after 9 hours 30 minutes. 77.5 km //
- i) If she rode back at a steady speed of 16 Km/hr, how long would it take her to return? 5 hours //

1. This graph shows the amount of electricity being used in a town in England during part of cup final day. The match started at 3.00pm.

The amount of electricity being used is measured in megawatts (MW).



Answer these questions:

- a) How much power was being used at 12.30 pm? *28.5 MW //*
- b) How much power was being used at 2.00 pm? *26 MW //*
- c) How much power was being used at the peak at about 3.45 pm? *34.2 MW //*
- d) Why was quite a lot of power being used between about 12.30 and 1.30 pm? *Lunch //*
- e) Why did the amount of power used drop at about 2.00 pm? *Finished their lunch //*
- f) If no extra time was played after the first half, what happened in the match at 3.45 pm? *Half time //*
- g) Why did the power used suddenly increase dramatically at 3.45 pm? *making a goal //*
- h) Why did the amount of power used rise steadily again from about 4.45 pm? *People start to make tea. //*

20-10-14

LO - To record results systematically

Record -

Systematically - it's a system

$$22-10-14$$

↳ 0-10 begin to use algebra to solve equations:

Algebra - numbers that have been put into shapes and letters.

Equations - A sum for example $2+2=4$

1.) $5 \times a = 50$ $50 \div 5 = 10$
 $a = 10$ ✓✓

2.) $5 \times a = 45$ $45 \div 5 = 9$
 $a = 9$ ✓✓

3.) $2 \times a = 14$ $14 \div 2 = 7$
 $a = 7$ ✓✓

4.) $3 \times y = 9$ $9 \div 3 = 3$
 $y = 3$ ✓✓

5.) $3 \times x = 12$ $12 \div 3 = 4$
 $x = 4$ ✓✓

6.) $6 \times a = 12$ $12 \div 6 = 2$
 $a = 2$ ✓✓

7.) $5 \times y = 25$ $25 \div 5 = 5$
 $y = 5$ ✓✓

8.) $2 \times y = 8$ $8 \div 2 = 4$
 $y = 4$ ✓✓

9.) $4 \times a = 8$ $8 \div 4 = 2$
 $a = 2$ ✓✓

10.) $4 \times a = 12$ $12 \div 4 = 3$
 $a = 3$ ✓✓

11.) $4 \div a = 2$

Growth da.
You have shown
that you can begin
to use algebra to
solve equations

→ Find a for Number 11.

3-11-14

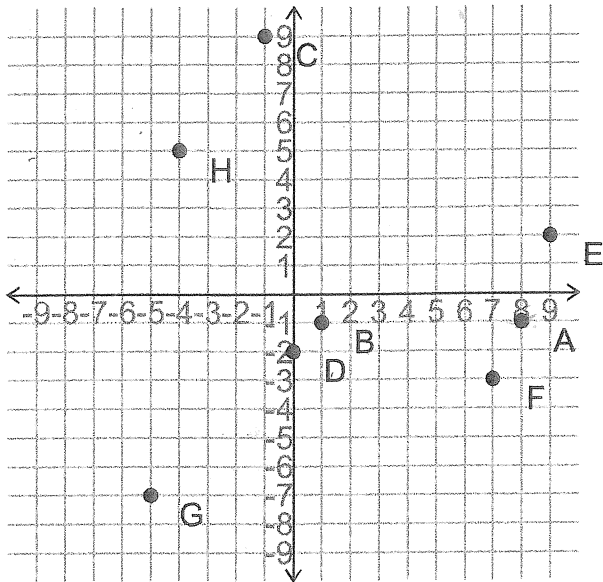
Lo - To read and plot co-ordinates in all four quadrants.

Plot - To plan something
co-ordinates are on a map and they show where something is.

✓ Excellent reading and plotting of co-ordinates
in all four quadrants.

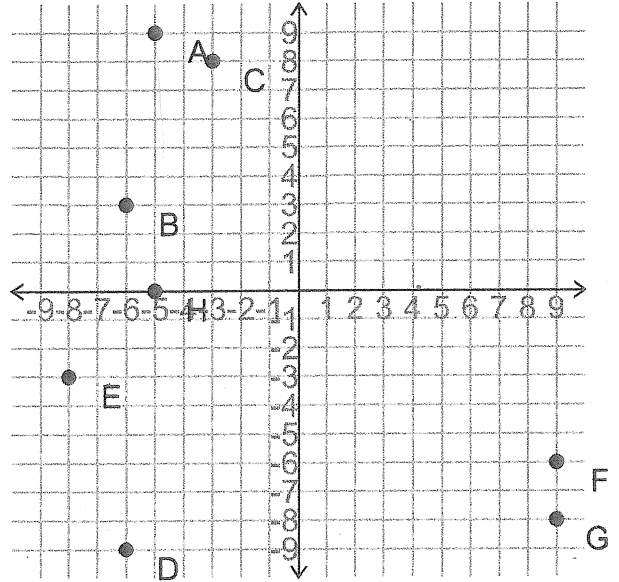
Co-ordinates

1.



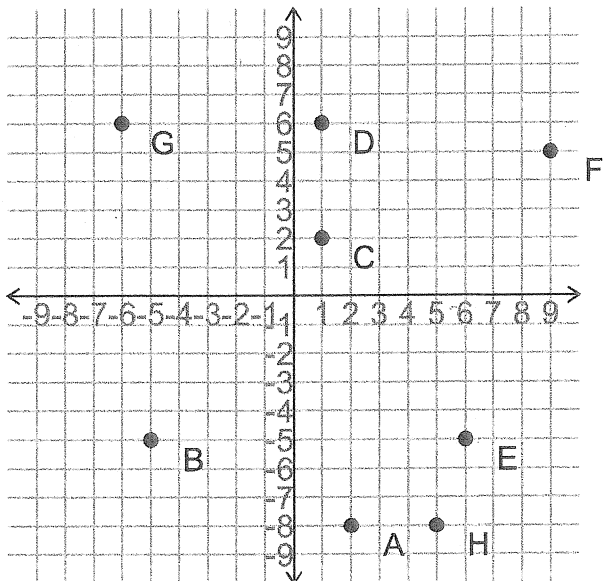
A = (8, -1) ✓ B = (1, -1) ✓
 C = (-1, 9) ✓ D = (0, -2) ✓
 E = (9, 2) ✓ F = (7, -3) ✓
 G = (-5, -7) ✓ H = (-4, 5) ✓

2.



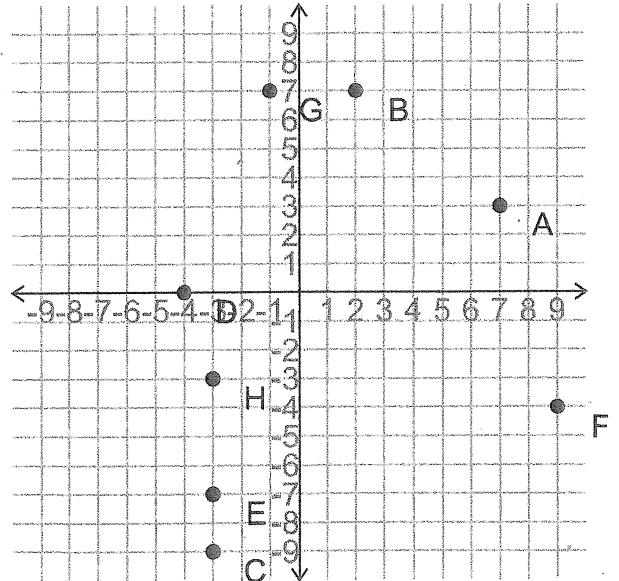
A = (-5, 9) ✓ B = (-6, 3) ✓
 C = (-3, 8) ✓ D = (-6, -9) ✓
 E = (-8, -3) ✓ F = (9, -6) ✓
 G = (4, -8) ✓ H = (-5, 0) ✓

3.

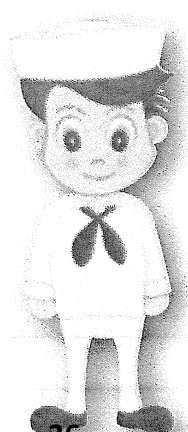


A = (2, -8) ✓ B = (-5, -5) ✓
 C = (1, 2) ✓ D = (1, 6) ✓
 E = (6, -5) ✓ F = (9, 5) ✓
 G = (-6, 6) ✓ H = (5, -8) ✓

4.

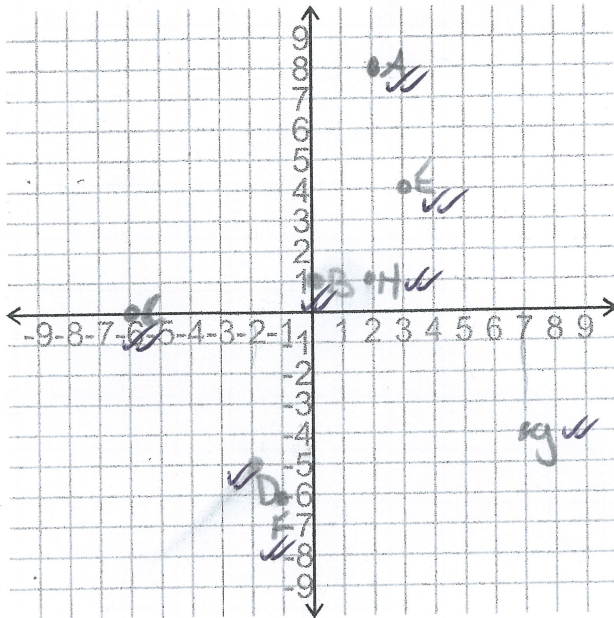


A = (7, 3) ✓ B = (2, 7) ✓
 C = (-3, -9) ✓ D = (-4, 0) ✓
 E = (-3, -7) ✓ F = (9, -4) ✓
 G = (-1, 7) ✓ H = (-3, -3) ✓



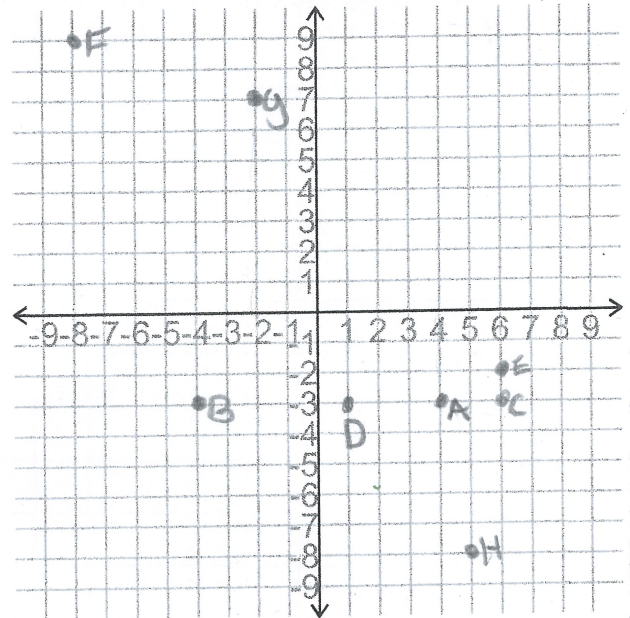
Co-ordinates

1.



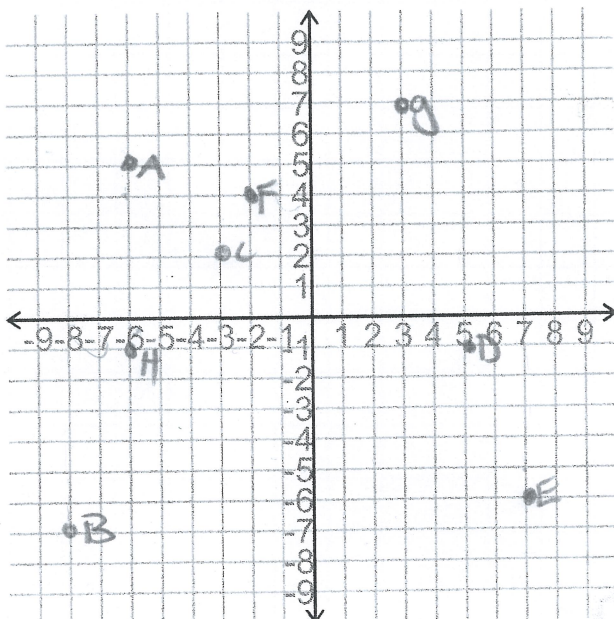
A = (2, 8) B = (0, 1)
C = (-6, 0) D = (-2, -5)
E = (3, 4) F = (-1, -6)
G = (7, -4) H = (2, 1)

2.



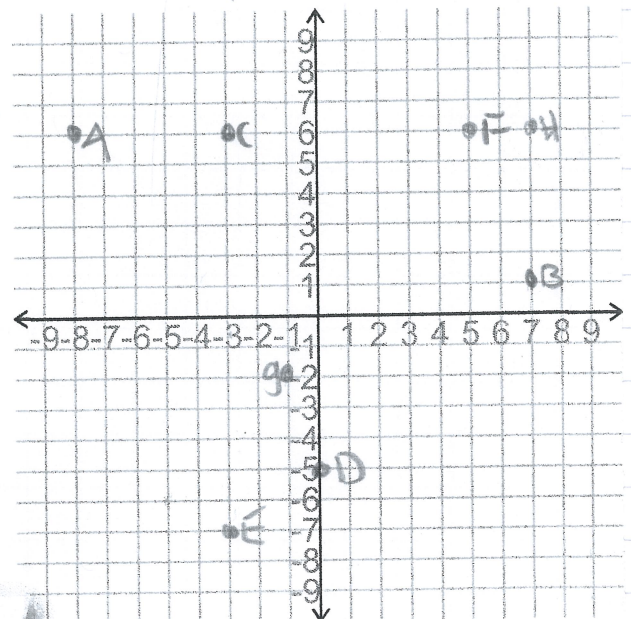
A = (4, -3) ✓ B = (-4, -3) ✓
C = (6, -3) ✓ D = (1, -3) ✓
E = (6, -2) ✓ F = (-8, 9) ✓
G = (-2, 7) ✓ H = (5, -8) ✓

3.



A = (-6, 5) ✓ B = (-8, -7) ✓
C = (-3, 2) ✓ D = (5, -1) ✓
E = (7, -6) ✓ F = (-2, 4) ✓
G = (3, 7) ✓ H = (-6, -1) ✓

4.



A = (-8, 6) ✓ B = (7, 1) ✓
C = (-3, 6) ✓ D = (0, -5) ✓
E = (-3, -7) ✓ F = (5, 6) ✓
G = (-1, -2) ✓ H = (7, 6) ✓

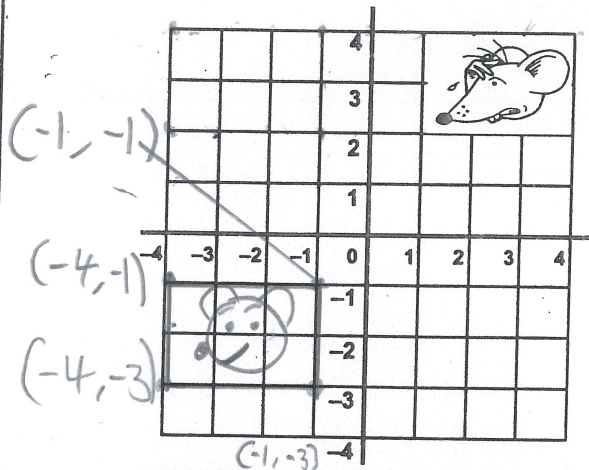


LO - To translate 2D ^{4 - 1 1 - 2 0 1 4} shapes in all four quadrants.

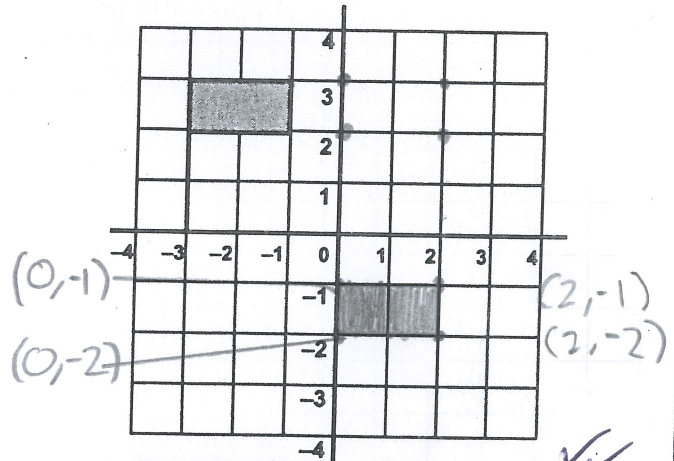
Translate - you can translate languages into your language.

2D shapes - shapes that are flat for example square, triangle.

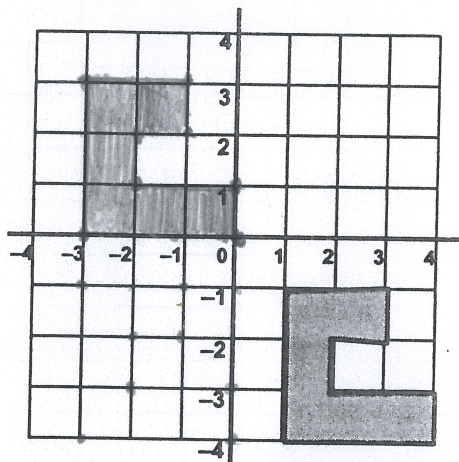
1. Translate the shapes by the amount shown:



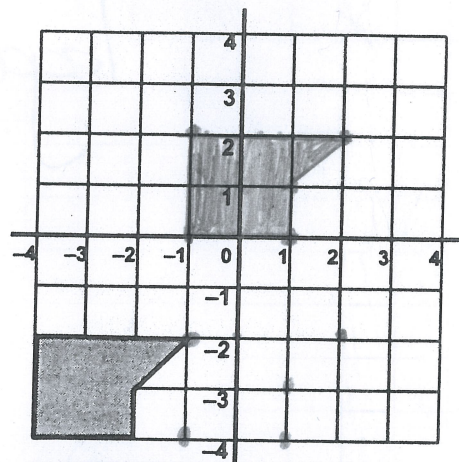
Translate 5 units to the left and 4 units down



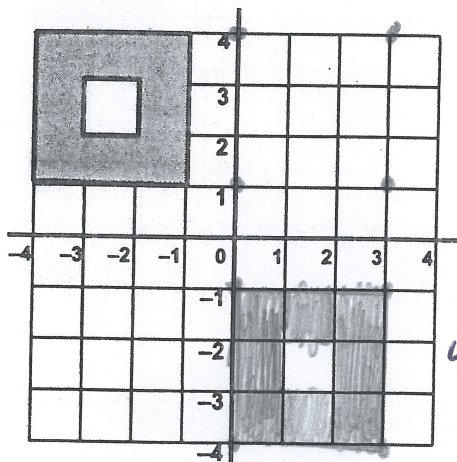
Translate 3 units to the right and 4 units down



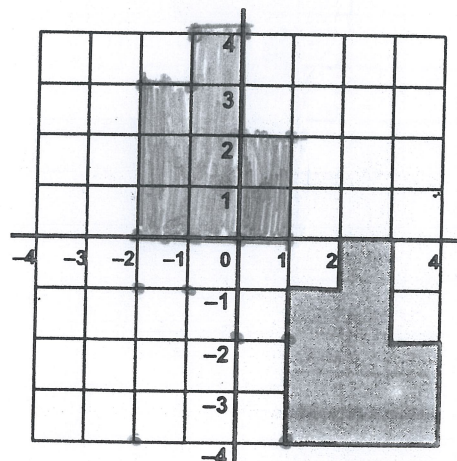
Translate 4 units to the left and 4 units up



Translate 3 units to the right and 4 units up



Translate 4 units to the right and 5 units down



Translate 3 units to the left and 4 units up

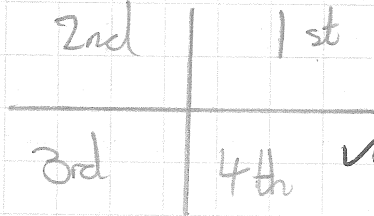
A very good understanding of translating 2D shapes using all four quadrants.

5 - 1 1 - 14

Lo-To reflect 2D shapes in all four quadrants.

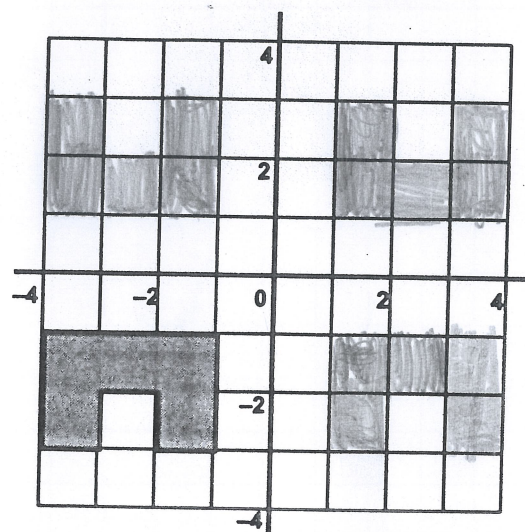
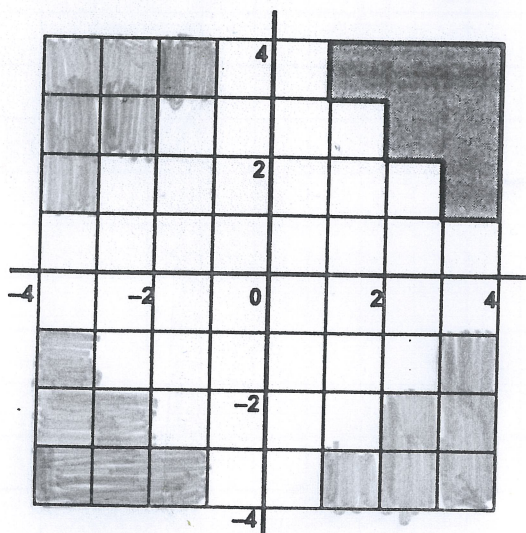
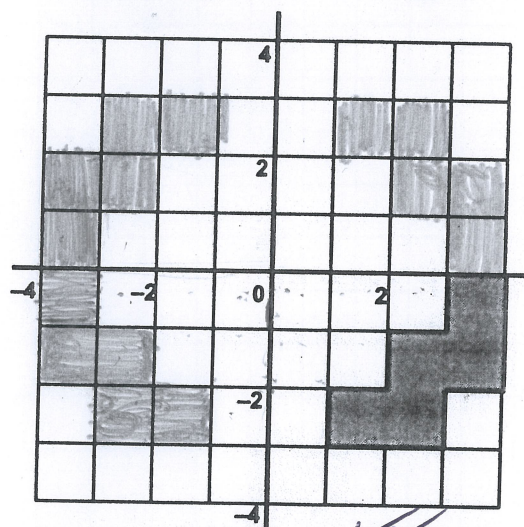
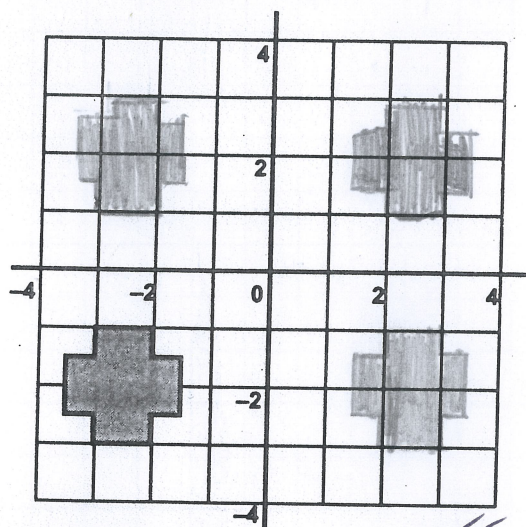
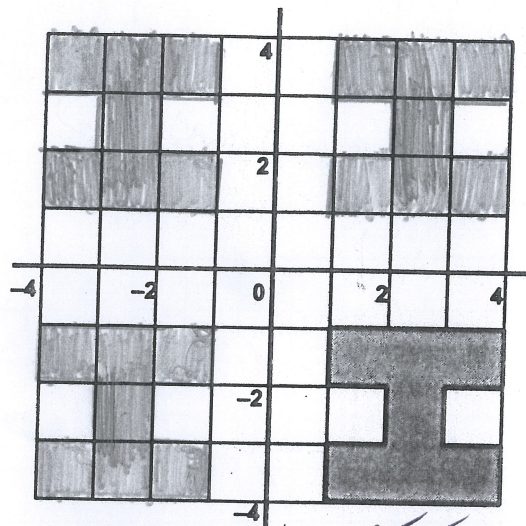
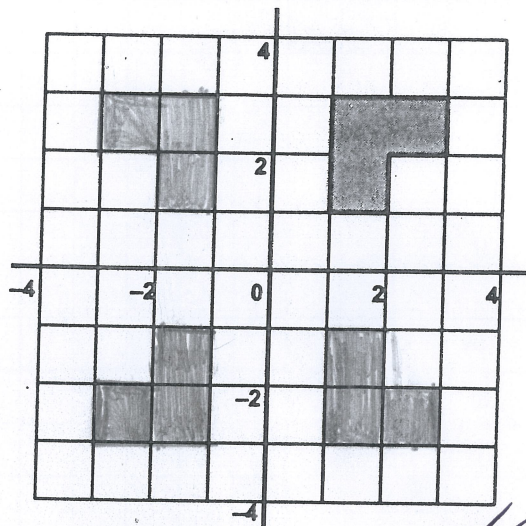
Reflect -  It's like reflection.

Quadrant - There are four quadrants. There are quadrants on co-ordinates.
The first quadrant is positive.
The third quadrant is negative.



Well remembered!

1. Reflect the following shapes in both mirror lines.



Well done An excellent understanding of reflecting 2D shapes using all four quadrants.

6 - 11 - 14

LO- To rotate 2D shapes in all four quadrants.

1st quadrant: All positive ✓

1st

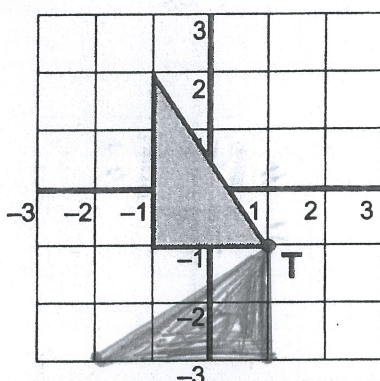
4th quadrant - The x axis is positive ✓
the y axis is negative ✓

4th

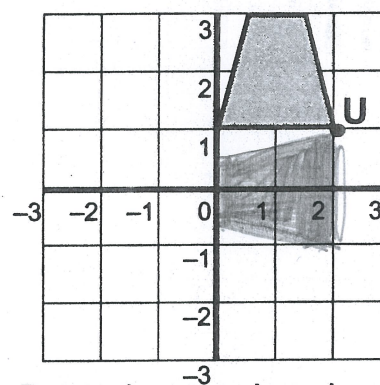
rotation -



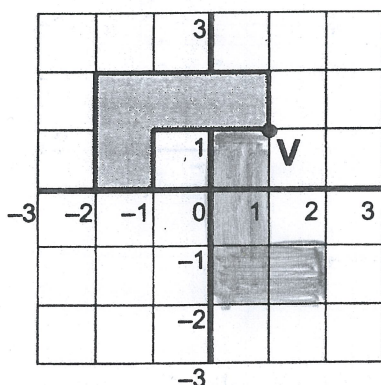
I would like you to rotate each of the shapes below by the amount shown. Be careful with 90° rotations to watch whether you should rotate clockwise or anti-clockwise!



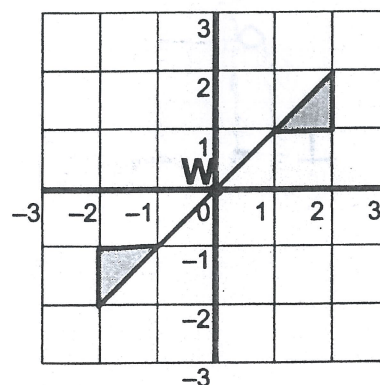
Rotate the triangle about T by 90° anti-clockwise ✓



Rotate the trapezium about U by 90° anti-clockwise ✓✓

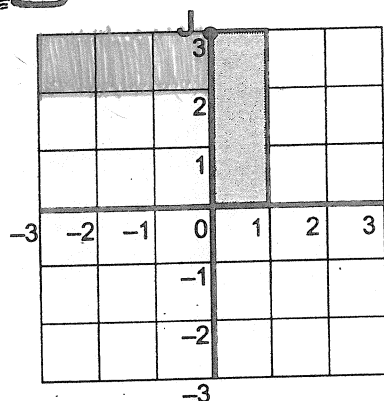


Rotate the hexagon about V by 90° anti-clockwise ✓✓

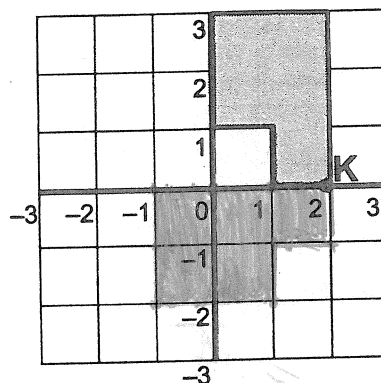


Rotate the double flag about W by 90° clockwise ✓✓

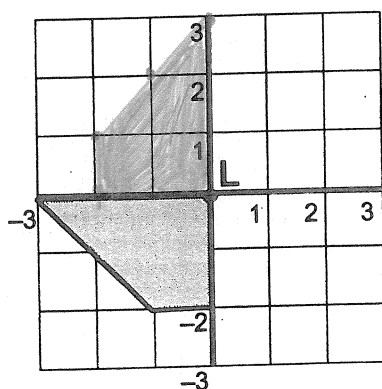
I would like you to rotate each of the shapes below by the amount shown. Be careful with 90° rotations to watch whether you should rotate clockwise or anti-clockwise!



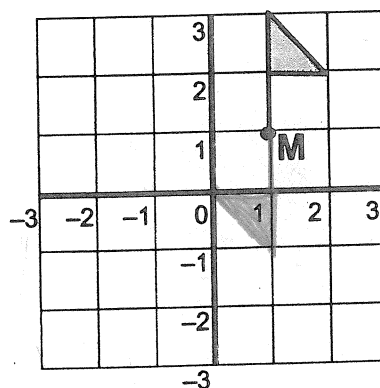
Rotate the rectangle about J by 90° clockwise



Rotate the hexagon about K by 90° anti-clockwise



Rotate the trapezium about L by 90° clockwise



Rotate the flag about M by 180°

For not feeling confident at the start of the lesson, you have demonstrated your understanding⁴⁴ really well. Adderhog!

10 - 11 - 14

LO - To recognise different fractions that are equivalent to each other.

fraction - $\frac{1}{2}$

equivalent - the same for example $\frac{3}{9} = \frac{1}{3}$

1.) $\frac{1}{2} = \frac{2}{4} = \frac{10}{20} = \frac{100}{200} = \frac{3}{6} = \frac{12}{24} =$

2.) $\frac{1}{4} = \frac{2}{8} = \frac{10}{40} = \frac{8}{32} = \frac{5}{20} = \frac{20}{80} =$

3.) $\frac{3}{5} = \frac{6}{10} = \frac{12}{20} = \frac{60}{100} = \frac{21}{35} =$

4.) $\frac{1}{6} = \frac{8}{48} = \frac{9}{54} = \frac{10}{60} = \frac{7}{42} =$

5.) $\frac{5}{8} = \frac{35}{56} = \frac{20}{32} = \frac{15}{24} =$

Have a look back at these.

$\frac{1}{6} \xrightarrow{\times 8} \frac{8}{48}$
 $\frac{5}{8} \xrightarrow{\times 7} \frac{35}{56}$

9.) $\frac{25}{100} = \frac{250}{1000}$
 $\frac{50}{200} = \frac{75}{400}$

10.) $\frac{8}{11} = \frac{16}{22} = \frac{36}{44}$
 $\frac{72}{88}$

6.) $\frac{4}{7} = \frac{12}{21} = \frac{28}{49} = \frac{5}{8} = \frac{40}{70}$

7.) $\frac{11}{12} = \frac{110}{120} = \frac{22}{24} = \frac{44}{48} = \frac{88}{96}$ 11.) $\frac{3}{9} = \frac{6}{18} = \frac{1}{3} = \frac{12}{36} = \frac{24}{72}$

8.) $\frac{4}{10} = \frac{40}{100} = \frac{18}{20} = \frac{81}{90} = \frac{36}{40}$ 12.) $\frac{3}{2} = \frac{6}{4} = \frac{12}{8} = \frac{24}{16}$

$\frac{48}{32}$

11 - 11 - 14

Lo - To simplify fractions.

$$1.) \frac{27}{36} = \frac{3}{4} //$$

$$14.) \frac{3}{24} = \frac{1}{8} //$$

$$2.) \frac{15}{20} = \frac{3}{4} //$$

$$15.) \frac{9}{24} = \frac{3}{8} //$$

$$3.) \frac{4}{14} = \frac{2}{7} //$$

$$16.) \frac{2}{24} = \frac{1}{12} //$$

$$4.) \frac{8}{20} = \frac{4}{10} = \frac{2}{5} //$$

$$17.) \frac{6}{24} = \frac{1}{4} //$$

$$5.) \frac{6}{9} = \frac{2}{3} //$$

$$6.) \frac{12}{42} = \frac{6}{21} = \frac{2}{7} //$$

$$7.) \frac{27}{45} = \frac{9}{15} = \frac{3}{5} //$$

$$8.) \frac{70}{100} = \frac{45}{50} = \frac{9}{10} ? \text{ check again.}$$

$$9.) \frac{16}{36} = \frac{8}{18} = \frac{4}{9} //$$

Well done

$$10.) \frac{16}{24} = \frac{8}{12} = \frac{4}{6} = \frac{2}{3} //$$

Excellent simplifying of fractions.

$$11.) \frac{12}{24} = \frac{6}{12} = \frac{3}{6} = \frac{1}{2} //$$

$$12.) \frac{18}{24} = \frac{9}{12} = \frac{3}{4} //$$

$$13.) \frac{12}{24} = \frac{6}{12} = \frac{3}{6} = \frac{1}{2} //$$

$$13 - 11 - 14$$

Lo-10 order fractions using a common denominator.

$$1.) \quad \frac{2}{3} \quad \frac{3}{5} \quad \frac{3}{4} \quad 6.) \quad \frac{3}{4} \quad \frac{4}{5} \quad \frac{7}{10}$$

$$\frac{20}{60} \quad \frac{12}{60} \quad \frac{15}{60} \quad \frac{50}{200} \quad \frac{40}{200} \quad \frac{20}{200}$$

$$\frac{3}{5} < \frac{3}{4} < \frac{2}{3} \quad \frac{7}{10} < \frac{4}{5} < \frac{3}{4} \times$$

$$2.) \quad \frac{2}{7} \quad \frac{1}{3} \quad \frac{8}{21} \quad 7.) \quad \frac{1}{2} \quad \frac{7}{12} \quad \frac{5}{6}$$

$$\frac{6}{21} \quad \frac{7}{21} \quad \frac{8}{21} \quad \frac{6}{12} \quad \frac{7}{12} \quad \frac{10}{12}$$

$$\frac{2}{7} < \frac{1}{3} < \frac{8}{21} \checkmark \quad \frac{1}{2} < \frac{7}{12} < \frac{5}{6} \checkmark$$

$$3.) \quad \frac{5}{9} \quad \frac{2}{3} \quad \frac{11}{18} \quad 8.) \quad \frac{3}{7} \quad \frac{2}{3} \quad \frac{4}{9}$$

$$\frac{10}{18} \quad \frac{12}{18} \quad \frac{11}{18} \quad \frac{27}{189} \quad \frac{72}{189} \quad \frac{21}{189}$$

$$\frac{2}{3} < \frac{5}{9} < \frac{11}{18} \quad \frac{4}{9} < \frac{3}{7} < \frac{2}{3} \times$$

$$4.) \quad \frac{1}{4} \quad \frac{5}{12} \quad \frac{2}{3} \quad 9.) \quad \frac{1}{2} \quad \frac{1}{3} \quad \frac{5}{6}$$

$$\frac{3}{12} \quad \frac{5}{12} \quad \frac{8}{12} \quad \frac{33}{66} \quad \frac{22}{66} \quad \frac{6}{66}$$

$$\frac{1}{4} < \frac{5}{12} < \frac{2}{3} \checkmark \quad \frac{5}{11} < \frac{1}{3} < \frac{1}{2} \times$$

$$5.) \quad \frac{3}{5} \quad \frac{1}{2} \quad \frac{4}{7} \times \quad 10.) \quad \frac{9}{10} \quad \frac{3}{4} \quad \frac{1}{12}$$

$$\frac{14}{70} \quad \frac{35}{70} \quad \frac{10}{70} \quad \frac{48}{480} \quad \frac{120}{480} \quad \frac{40}{480}$$

$$\frac{4}{7} < \frac{3}{5} < \frac{1}{2} \quad \frac{147}{12} < \frac{9}{10} < \frac{3}{4} \times$$

$$1.1) \quad \frac{2}{3} \quad \frac{4}{5} \quad \frac{5}{8}$$

$$\frac{40}{120} \quad \frac{24}{120} \quad \frac{15}{120}$$

$$\frac{5}{8} < \frac{4}{5} < \frac{2}{3} \times$$

Sels assessed.

Correction

$$\frac{2}{3} \quad \frac{4}{5} \quad \frac{5}{8}$$

$$\frac{80}{120} \quad \frac{96}{120} \quad \frac{75}{120}$$

$$\frac{5}{8} < \frac{2}{3} < \frac{4}{5}$$

Well done

You've had a good go at using a common denominator to order the fractions.

⇒ Corrections please.

Lo-To find fractions or quantities

1.) $\frac{1}{10}$ of £125 = £12.50

$\frac{4}{10}$ of £125 = £50 //

2.) $\frac{1}{10}$ of £58 = £5.80

$\frac{4}{10}$ of £58 = £23.20 //

3.) $\frac{1}{10}$ of £12.50 = £1.25

$\frac{4}{10}$ of £12.50 = £5.00 //

£1.25
x 4
5.00

4.) $\frac{1}{10}$ of £150 = £15.00

$\frac{4}{10}$ of £150 = £60.00 //

5.) $\frac{1}{10}$ of £425 = £42.50

$\frac{4}{10}$ of £425 = £170.00 //

£42.50
x 4
170.00

6.) $\frac{1}{10}$ of £260 = £26.00

$\frac{4}{10}$ of £260 = £104.00 //

£26.00
x 4
104.00

$$7.) \frac{1}{10} \text{ of } £320 = £32.00$$

$$14.) \frac{1}{4} \text{ of } 28 = 7$$

$$\frac{4}{10} \text{ of } £320 = £128.00 //$$

$$\frac{3}{4} \text{ of } 28 = 21 //$$

$$8.) \frac{1}{10} \text{ of } £740 = £74.00$$

$$15.) \frac{1}{3} \text{ of } 90 = 30$$

$$\frac{4}{10} \text{ of } £740 = £296.00 //$$

$$\frac{2}{3} \text{ of } 90 = 60 //$$

$$9.) \frac{1}{10} \text{ of } £1000 = £100$$

$$16.) \frac{1}{6} \text{ of } 120 = 20$$

$$\frac{4}{10} \text{ of } £1000 = £400 //$$

$$\frac{5}{6} \text{ of } 120 = 100 //$$

$$10.) \frac{1}{5} \text{ of } 40 = 8$$

$$17.) \frac{1}{8} \text{ of } 240 = 30$$

$$\frac{4}{5} \text{ of } 40 = 32 //$$

$$\frac{3}{8} \text{ of } 240 = 90 //$$

$$11.) \frac{1}{8} \text{ of } 48 = 6$$

$$18.) \frac{1}{10} \text{ of } 500 = 50$$

$$\frac{7}{8} \text{ of } 48 = 42 //$$

$$\frac{7}{10} \text{ of } 500 = 350 //$$

$$12.) \frac{1}{9} \text{ of } 81 = 9$$

$$\frac{2}{9} \text{ of } 81 = 18 //$$

$$13.) \frac{1}{7} \text{ of } 77 = 11$$

$$\frac{2}{7} \text{ of } 77 = 22 //$$

Gwaith da
Excellent calculation
of the percentages of quantities.

18-11-14

Lo - To calculate percentages.

1.) 10% of 140 = 14

20% of 140 = 28 //

2.) 10% of 280 = 28 //

30% of 280 = 84

3.) 10% of 190 = 19 //

40% of 190 = 76

4.) 10% of 250 = 25 //

50% of 250 = 125

5.) 10% of 360 = 36 //

6.) 10% of 180 = 18 //

30% of 180 = 54

7.) 10% of 340 = 34 //

20% of 340 = 68

8.) 10% of 170 = 17 //

40% of 170 = 68

9.) 10% of 220 = 22

60% of 220 = 132 //

10.) 10% of 200 = 20

80% of 200 = 1600 ?

11.) 10% of 120 = 12

30% of 120 = 36

12.) 10% of 40 = 4 //

40% of 40 = 16

13.) 10% of 350 = 35 //

20% of 350 = 70

14.) 10% of 36 = 3.6 //

50% of 36 = 18

15.) 10% of 400 = 40 //

16.) 10% of 300 = 30 //

30% of 300 = 90

Ardderchog

Excellent calculation of percentages.

20-11-14

Lo - To calculate sale prices using percentages.

1) 10% of 160 = 16

50% of 160 = 80 children //

2) 10% of 300 = 30

40% of 300 = 120 children //

3) 10% of 180 = 18

20% of 180 = 36 children //

4) 10% of 440 = 44

40% of 440 = 176 children

$$\begin{array}{r} 44 \\ \times 4 \\ \hline 160 \end{array}$$

5) 10% of 140 = 14 children

6) 10% of 240 = 24

20% of 240 = 48 children //

7) 10% of 400 = 40

5% of 400 = 20

20% of 400 = 80

25% of 400 = 100 children //

8) 10% of 200 = 20

5% of 200 = 10

70% of 200 = 140

75% of 200 = 150 children //

$$9.) 10\% \text{ of } £30 = £3 \quad £30 - £9 = £21 //$$

$$30\% \text{ of } £30 = £9$$

$$10.) 10\% \text{ of } £60 = £6 \quad £60 - £12 = £48 //$$

$$20\% \text{ of } £60 = £12$$

$$11.) 10\% \text{ of } £20 = £2 \quad £20 - £8 = £12 //$$

$$40\% \text{ of } £20 = £8$$

$$12.) 10\% \text{ of } £40 = £4 \quad £40 - £10 = £30 //$$

$$5\% \text{ of } £40 = £2$$

$$20\% \text{ of } £40 = £8$$

$$£8 + £2 = £10$$

$$25\% \text{ of } £40 = £10$$

$$13.) 10\% \text{ of } £80 = £8 \quad £80 - £60 = £20 //$$

$$5\% \text{ of } £80 = £4$$

$$70\% \text{ of } £80 = £56$$

$$75\% \text{ of } £80 = £60$$

$$14.) 10\% \text{ of } £50 = £5 \quad £50 - £30 = £20 //$$

$$60\% \text{ of } £50 = £30$$

$$15.) 10\% \text{ of } £70 = £7 \quad £70 - £52 = £18 //$$

$$5\% \text{ of } £70 = £3.50$$

$$20\% \text{ of } £70 = £14$$

$$25\% \text{ of } £70 = £17.50$$

$$16. \quad 10\% \text{ of } £30 = £3$$

$$5\% \text{ of } £30 = £1.50$$

$$70\% \text{ of } £30 = £21$$

$$75\% \text{ of } £30 = £22.50$$

$$£30 - £22.50 = £7.50 //$$

Well done . Super percentages work .

⇒ Correction please .

27% of 3840 km

10% of 3840 km = 384 km

20% = $384 \times 2 = 768$ km

1% of 3840 = 38.4 km

7% = 38.4

768.0

+ 268.8

268.8

52

1036.8 km

!!

$$13\% \text{ of } 324$$

$$10\% \text{ of } 324 = 32.4$$

$$10\% \text{ of } 32.4 = 3.24$$

$$3\% = 3.24$$

$$\frac{3}{9.72}$$

$$\begin{array}{r} 32.40 \\ + 9.72 \\ \hline 42.12 \\ \hline 1 \end{array}$$

$$13\% = 32.4 + 9.72 =$$

L.O - To recognise and use mixed numbers and improper fractions.

$$1.) 2 \frac{3}{8} = \frac{19}{8} \quad 19 \text{ slices} \quad // \quad 14.) 3 \frac{1}{5} = \frac{16}{5} //$$

$$2.) 2 \frac{5}{6} = \frac{17}{6} \quad 17 \text{ slices} // \quad 15.) 2 \frac{4}{5} = \frac{14}{5} //$$

$$3.) 1 \frac{7}{8} = \frac{15}{8} \quad 15 \text{ slices} // \quad 16.) 3 \frac{3}{5} = \frac{18}{5} //$$

$$4.) 3 \frac{1}{4} = \frac{13}{4} \quad 13 \text{ slices} // \quad 17.) 6 \frac{1}{5} = \frac{31}{5} //$$

$$5.) 2 \frac{2}{3} = \frac{8}{3} \quad 8 \text{ slices} // \quad 18.) 1 \frac{4}{5} = \frac{9}{5} //$$

$$6.) 1 \frac{1}{6} = \frac{7}{6} \quad 7 \text{ slices} // \quad 19.) 2 \frac{2}{5} = \frac{12}{5} //$$

$$7.) 2 \frac{2}{7} = \frac{16}{7} \quad 16 \text{ slices} // \quad 20.) 4 \frac{2}{5} = \frac{22}{5} //$$

$$8.) 1 \frac{7}{9} = \frac{16}{9} \quad 16 \text{ slices} //$$

Excellent conversion of the mixed numbers into improper fractions.

$$9.) 2 \frac{11}{12} = \frac{35}{12} \quad 35 \text{ slices} //$$

$$10.) 1 \frac{7}{10} = \frac{17}{10} \quad 17 \text{ slices} //$$

$$11.) 3 \frac{4}{5} = \frac{19}{5} //$$

$$12.) 1 \frac{2}{5} = \frac{7}{5} //$$

$$13.) 2 \frac{3}{5} = \frac{13}{5} //$$

25 - 11 - 14

LO - To calculate the midpoint between two fractions.

1.) $\frac{2}{7} \quad \frac{3}{7}$
 midpoint = $2 \cdot \frac{3}{7} = 2 \cdot \frac{7}{14} = 2 \cdot \frac{1}{2} \checkmark \checkmark$

2.) $\frac{3}{5} \quad \frac{3}{5}$
 midpoint = $3 \cdot \frac{5}{5} = 3 \cdot \frac{7}{10} \checkmark \checkmark$

3.) $\frac{1}{3} \quad \frac{2}{3}$
 midpoint = $1 \cdot \frac{5}{3} = 1 \cdot \frac{3}{6} = 1 \cdot \frac{1}{2} \checkmark \checkmark$

4.) $\frac{2}{7} \quad \frac{5}{7}$
 midpoint = $2 \cdot \frac{5}{7} = 2 \cdot \frac{9}{14} \checkmark \checkmark$

5.) $\frac{1}{8} \quad \frac{5}{8}$
 midpoint = $1 \cdot \frac{4}{8} = 1 \cdot \frac{1}{2} \checkmark \checkmark$

6.) $\frac{4}{9} \quad \frac{8}{9}$
 midpoint = $4 \cdot \frac{5}{9} = 4 \cdot \frac{15}{18} = 4 \cdot \frac{5}{6} \checkmark \checkmark$

7.) $\frac{3}{11} \quad \frac{7}{11}$
 midpoint = $3 \cdot \frac{5}{11} = 3 \cdot \frac{13}{22} \checkmark \checkmark$

$$8. \quad 5 \quad \frac{13}{15} \quad 5 \quad \frac{14}{15}$$

$$\text{midpoint} = 5 \quad \frac{13 \cdot 5}{15} = 5 \quad \frac{27}{30} = 5 \quad \frac{9}{10} \quad \checkmark$$

$$9. \quad 6 \quad \frac{4}{5} \quad 7 \quad \frac{1}{5}$$

$$\frac{34}{5} \quad \frac{35}{5} \quad \frac{36}{5}$$

\downarrow
 $7 \quad \checkmark$

Self assessed

Ardderchog
 Super Calculation of the midpoint
 between two fractions.

27-11-14

LO - To calculate the mean

1.) Blue total = 25
Mean = $25 \div 5 = 5$ //

2.) White team = 20
Mean = $20 \div 5 = 4$ //

3.) Red team = 35
Mean = $35 \div 5 = 7$ //

4.) Green team = 30
Mean = $30 \div 5 = 6$ //

5.) Yellow team = 25
Mean = $25 \div 5 = 5$ //

6.) Orange team = 25
Mean = $25 \div 5 = 5$ //

7.) Nancy's total = 15
Mean = $15 \div 3 = 5$ //

8.) Gary's total = 15
Mean = $15 \div 3 = 5$ //

9.) Kevin's total = 18
Mean = $18 \div 3 = 6$ //

10.) Corinna's total = 18
Mean = $18 \div 3 = 6$ //

11.) Parvati's total = 18
Mean = $18 \div 3 = 6$ //

12.) Tom's total = 12
Mean = $12 \div 3 = 4$ //

13.) Lucky dip total = 40
Mean = $40 \div 4 = 10p$ //

14.) Tombola total = 30
Mean = $30 \div 6 = 5p$ //

15.) Hoopla total = 60
Mean = $60 \div 3 = 20p$ //

16.) Coconut shy total = 115
Mean = $115 \div 5 = 23p$ //

// Super calculation
of mean
Da ian