

Year 5 Term 3 Homework

Student Name: _____	Grade: _____
Date: _____	Score: _____

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5 Year 5 Term 3 Week 5 Homework

5.1 Topic 1 — Time

1. Covert the following 24-hour times to 12-hour times (24 hour time always shown as a 4 digit number):

(a) 1640 _____

(b) 0535 _____

(c) 2020 _____

2. There are the times when letters are collected from a post box:

Monday to Friday	Saturday	Sunday
9 am 2 pm 6.30 pm	11.30 am	No collection

What is the **latest** time that letters are collected on **Wednesdays**?

Carla posts a letter at **10 a.m. on Monday**.
How **long** will it be before it is collected? hours

Gareth posts a letter on **Saturday at 4 p.m.**
When will it be collected from the post box? day time

3. Shown below is the calendar for August 1998. Steven’s birthday is on August 20th. In 1998 he had a party in the Sunday after his birthday. What was the date of his birthday party?

August 1998

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

5.2 Topic 2 — Space 3D & 2D

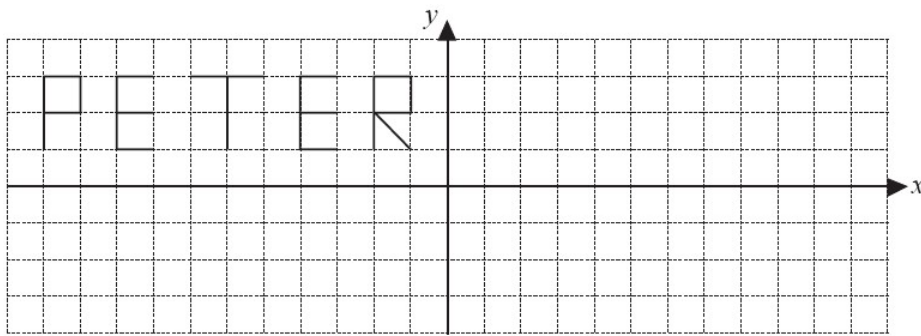
1. How many edges does a square pyramid have?

2. How many vertices does a cone have?

3. How many faces does cylinder have?

4. How many vertices does a triangular pyramid have?

5. Reflect the word PETER: a) in the x-axis b) in the y-axis.



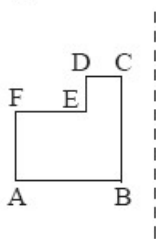
6. How many lines of symmetry does each of these letters have?



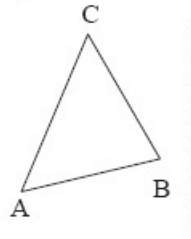
A: _____ , E: _____ , I: _____ , O: _____ , U: _____ ,

7. Reflect each shape in the mirror line. Label the corresponding point A', B', etc.

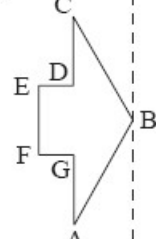
a) mirror line



b) mirror line

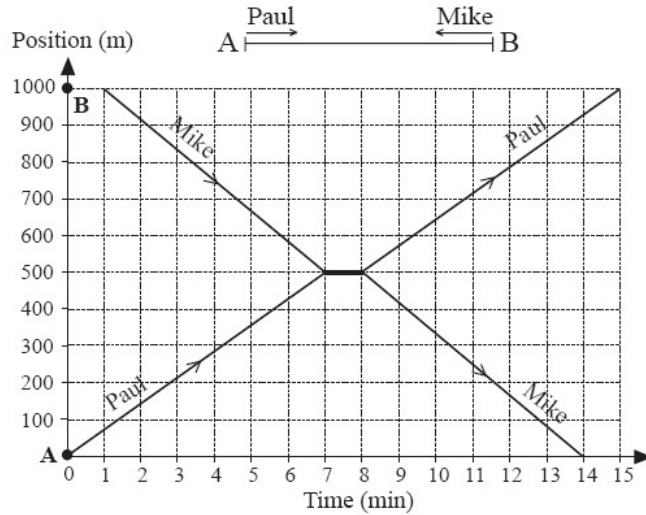


c) mirror line



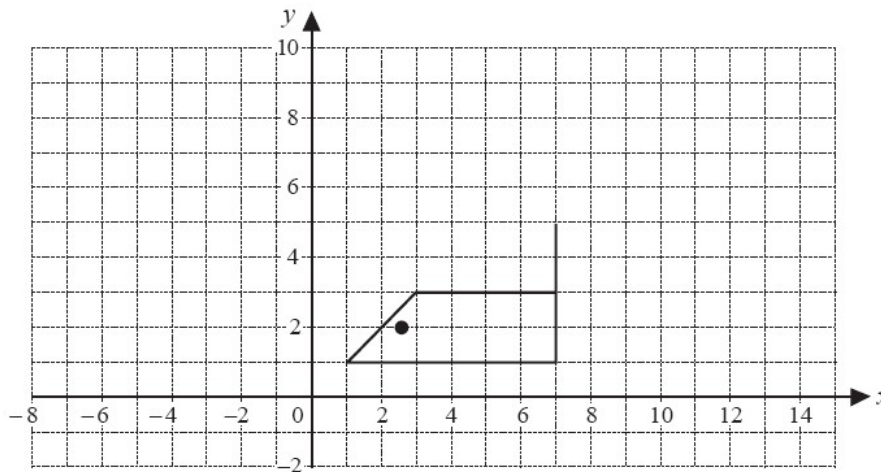
5.3 Topic 3 — Position

1. Paul is walking from A to B and Mike is walking from B to A. The graph shows their positions during that time.



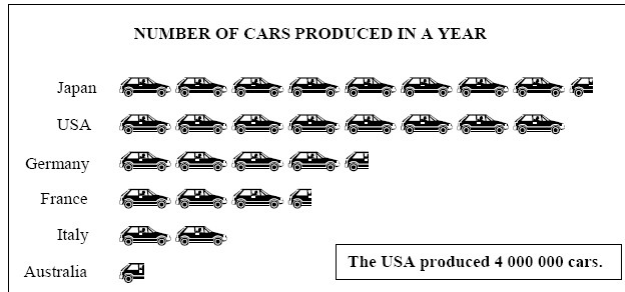
- (a) Who started first? _____
- (b) Who arrived first? _____
- (c) How long did Paul take? _____
- (d) How long did Mike take? _____
- (e) What happened during the 7th and 8th minutes?

2. Translate the mouse by adding 7 to the first coordinate and 3 to the second coordinate of each vertex.



5.4 Topic 4 — Graphs

1. The diagram shows the number of cars produced in a year. Answer the following questions refer to the information given:

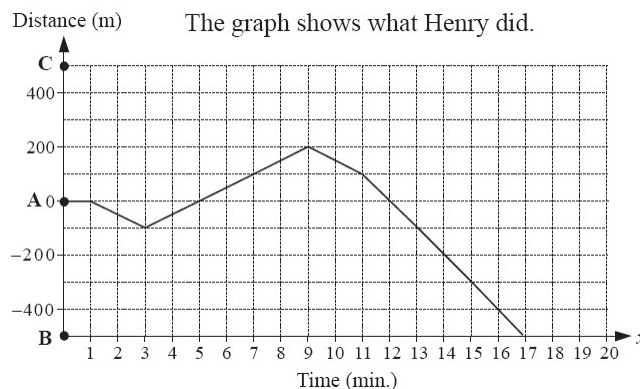


(a) How many cars did Japan produce?

(b) Which country produced four times as many cars as Italy?

(c) How many more cars did Germany produce than Australia?

2. Henry cannot make up his mind which cinema, B or C, to go to from his house at A.



(a) Which cinema did Henry go to? _____

(b) When did he change his mind? _____

(c) When did he start to run? _____

5.5 Problem Solving (Work Problems)

1. Working along, Daniel can do a certain job in two hours and John can do the same job in three hours. At these rates, how long would it take Daniel and John to do the job working together?

2. Working along, an adult requires three hours to do a certain job. A child working along requires six hours to do the same job. How long will it take the adult and child working together to finish this job?

3. It takes three hours for tap A to fill up a pool and four hours for tap B to fill up the same pool. If both tap A and tap B are opened at the same time, how long will it take to fill up the pool?

4. A group of 12 students purchases rations sufficient for a two week camping trip. If two students join the group but no additional rations are purchased, how many days will the rations last?

5.6 Test Paper 5

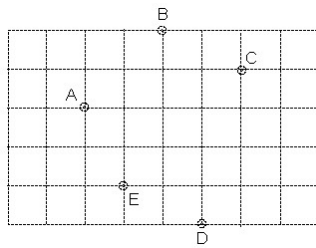
5.6.1 Part A — 10 Multiple Choice Questions (1 mark each)

- Leo is tiling a square floor with sides 4 metres long. The tiles cost \$48 per square metre. Which calculation gives the total cost of tiling the floor?
(A) $\$(48 \times 12)$ (B) $\$(48 \div 12)$ (C) $\$(48 \times 16)$ (D) $\$(48 \div 16)$
- $57 \times 29 + 57 \times 11 = 57 \times (50 - \Delta)$
(A) $\Delta = 0$ (B) $\Delta = 10$ (C) $\Delta = 19$ (D) $\Delta = 40$
- Which one of these letters A, E, S or U has half turn symmetry?
(A) A (B) E (C) S (D) U
- $\frac{1}{3}$ of a number exceeds $\frac{1}{4}$ of it by 5. What is that number?
(A) 30 (B) 40 (C) 60 (D) 120
- 0.3 hours = _____ minutes
(A) 3 (B) 30 (C) 18 (D) 12
- The number of metres in $\frac{1}{8}$ kilometre is
(A) 125 (B) 250 (C) 500 (D) 12.5
- For every 5 TV sets sold, a salesman received a commission of \$100. How many TV sets must he sell in order to earn a commission of \$3600?
(A) 36 (B) 72 (C) 180 (D) 150
- The digits of the number 2639 are arranged in descending order and then in ascending order. The difference between these two new numbers is:
(A) 7263 (B) 7236 (C) 7253 (D) 7003
- There are 24 boys and 18 girls in a group. What is the percentage of boys in the group?
(A) 42% (B) 55% (C) $57\frac{1}{7}\%$ (D) 58%
- Express $\frac{3}{8}$ as a decimal.
(A) 0.125 (B) 0.325 (C) 0.375 (D) 0.625

5.6.2 Part B — 10 Average Questions (2 marks each)

1. A trundle wheel clicks once every half metre as it measures along the ground. How many times would a trundle wheel click when measuring one and a half kilometres?

2. Which points would need to be joined together to make a right-angle triangle?



3. Joe travelled 120 km in 90 minutes. What was his average speed?

4. It took Mike 48 minutes to complete a journey of 36 km. What was his average speed in kilometres per hour?

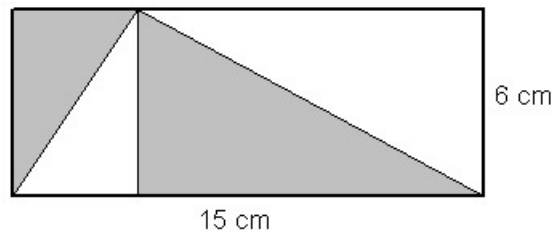
5. All the three hundred and five students at our school brought \$5.60 each for the excursion. What was the total amount collected?

6. 16 bunches of bananas are bought at the markets for \$72. How many bunches could be bought with \$108?

7. I spent $\frac{1}{2}$ my money on paper and $\frac{1}{3}$ of what remained on pens. That left me with \$12. How much did I start shopping with?

8. Find the square root of the sum of the squares of 5 and 12.

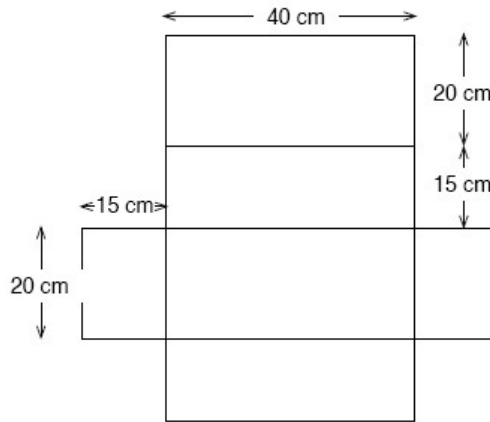
9. The rectangle in the diagram is 15 cm by 6 cm. Find the area of the shaded portion.



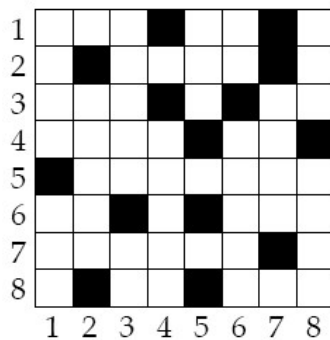
10. A drink is made up of 2 parts of cordial and 11 parts of water. How much cordial would be needed in making 78 litres of drink?

5.6.3 Part C — 10 Extension Questions (3 marks each)

1. This is the net for a closed rectangular box. Find the volume of the completed box.

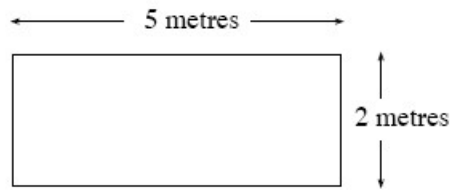


2. George is making a crossword puzzle grid with half turn symmetry. He has completed the first four rows. He has two more squares to colour black to complete his grid. The two squares to colour black are:



- (a) row 5, column 4 and row 7, column 2.
- (b) row 5, column 5 and row 5, column 8.
- (c) row 8, column 7 and row 2, column 4.
- (d) row 4, column 1 and row 5, column 8.

3. Ken is helping the P.E teacher. He wants to fill the long jump pit with sand about 30 cm deep. How much sand does he need?

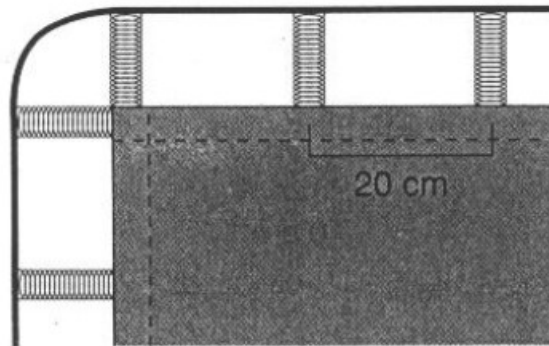


4. A car travels at 50 km/h for 100 km, then at 100 km/h for 50 km. What is the average speed for the whole journey?

5. It takes six men two and a half hours to load 275 rolls of hay onto trucks. How long will it take five men to load the same amount of hay, if they all work at the same rate?



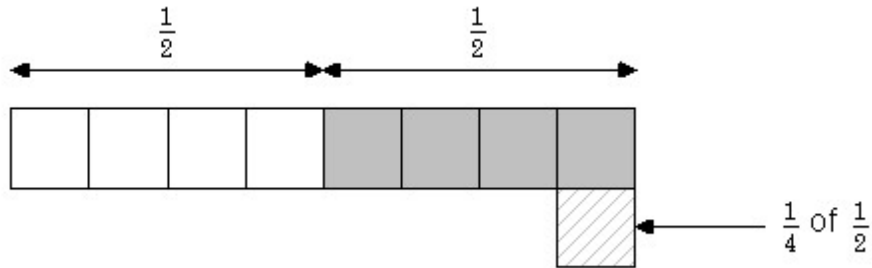
6. A rectangular trampoline mat is joined to a frame by springs, which are placed 20 cm apart. Each corner of the mat needs 2 springs as shown below. For a mat which is 2.6 m long and 1.4 m wide, how many springs are needed?



7. The area of a square and a rectangle are the same. The rectangle measures 16 cm by 4 cm. What is the perimeter of the square?

8. The ratio of pear trees to the apple trees in an orchard is 3 : 5. If there are 24 more apples than pear trees, how many pear trees are there?

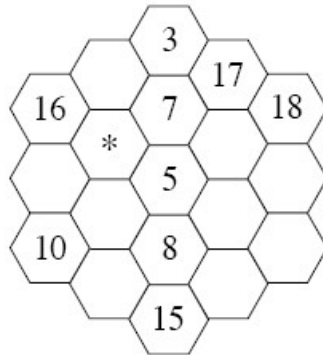
9. Mary spent $\frac{1}{2}$ of her money on a dress and $\frac{1}{4}$ of the remainder on some beads. How much was the dress if the beads cost \$30?



10. The average speed of a Ford is 80 km/h. The average speed of a Mazda is 95 km/h. If both cars start at the same time, how far will Ford be behind the Mazda, after one and a half hours?

5.6.4 Part D — 8 Challenging Questions (5 marks each)

1. Matt is making a magic hexagon using this design and the numbers 1 to 19. The number in each diagonal and column must add up to 38. What is the number that goes at position * ?

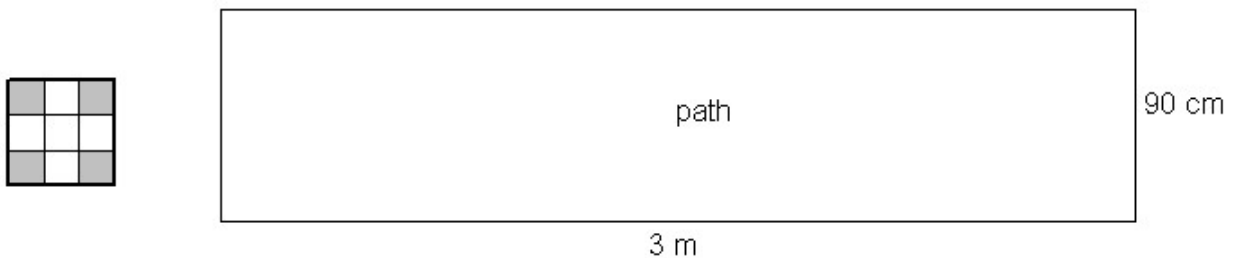


2. 44% of the audience at the concert are men. The rest are women and children in the ratio of 5:2. If there are 12 more men than women, how many people are there?

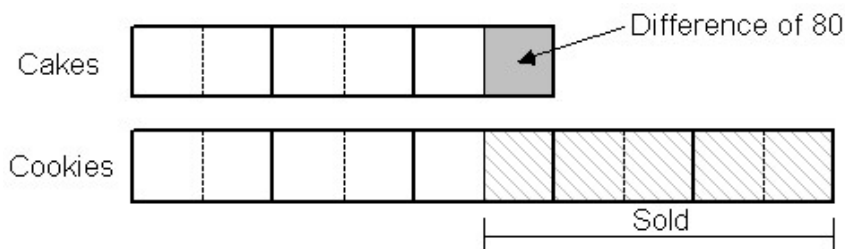
3. A car travels at 75 km/h, 15 km/h faster than a van. If the van takes 3 hours to complete a journey, how long will it take the car to travel the same distance?

4. Keith and David had marbles in the ratio of 2:7. If David had 56 marbles and gave 16 marbles to Keith, what would be the new ratio?

5. Michael wants to pave the path which measures 90 centimetres by 3 metres using a pattern of paving stones. The white squares or grey squares have each side 10 centimetres long. How many grey squares does Michael need to pave the path?



6. The ratio of cakes to cookies in a bakery was 3:5. After selling $\frac{1}{2}$ the cookies, there were 80 less cookies than cakes. How many cookies were left?



7. If a class of children is separated into groups of 5 children, 2 children will be left over. If the class is separated into group of 6 children, 3 children will be left over. What is the smallest number of children the class could have?

8. Charles cut a square cake into three equal parts as shown and joins them end to end to make a rectangular cake. What is the difference in perimeter between the original cake and the new cake?

