

YEAR 8 / 9 TEST

**SECTION A: NUMBER (20 Marks)**

Name: \_\_\_\_\_

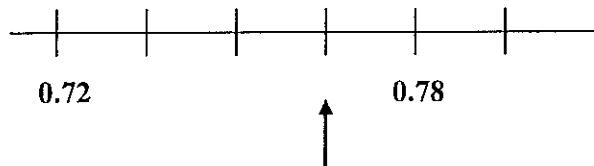
Teacher's Name: \_\_\_\_\_

**QUESTIONS 1-10 (1 mark each)**

**ANSWER**

1. Write $\frac{3}{8}$ as a decimal.	
2. Convert $8\frac{1}{4}\%$ to a fraction.	
3. Write 10 203 in expanded form.	
4. Round 21.379 to the nearest tenth.	
5. Express $\frac{18}{45}$ as a percentage.	
6. Calculate $(-3)^2 - (-4)^2$ .	
7. Evaluate $2 \times -3 + 12 \div -4$	
8. $\frac{4}{5}$ is equivalent to $\frac{48}{\square}$	
9. Find 15% of \$2.40	
10. Arrange in ascending order:  0.203, 0.23, 0.0203, 0.302	

11.



What number is the arrow pointing to? \_\_\_\_\_ (1)

12. True or false?  $\frac{3}{7} > \frac{2}{6}$  \_\_\_\_\_ (1)

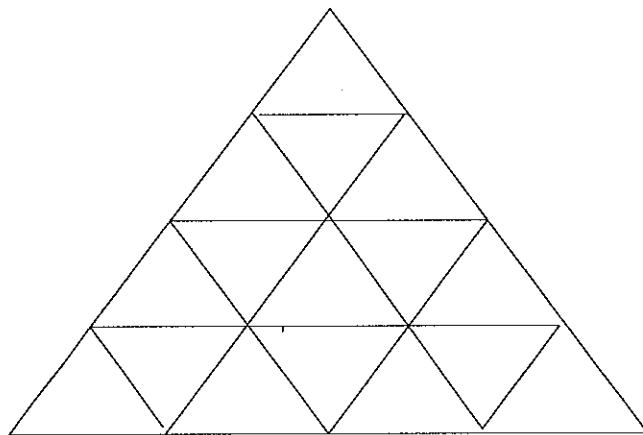
Name: \_\_\_\_\_

Teacher's Name: \_\_\_\_\_

13. Evaluate:  $1\frac{1}{3} - \frac{6}{11}$  (1)

14. Evaluate:  $\frac{8}{5} \times \frac{5}{8}$  (1)

15. What fraction of the diagram is shaded? \_\_\_\_\_ (1)



16. Insert brackets to make this statement true. (1)

$$9 \div 3 + 4 \times 7 = 49$$

17. A tin of fishcake mix contains 240g of salmon, 156g of potato, 24g of seasoning and 16g of cornflour. Find the percentage by weight of salmon. (1)

Name: \_\_\_\_\_

Teacher's Name: \_\_\_\_\_

18. Mark bought a barrel containing 30 L of orange juice.

If he drank  $1\frac{1}{4}$  L every day, how long will the barrel last ? (1)

19. Matthew receives \$36 per 1 000 newspapers he delivers, how much will he receive if he delivers 2 500 newspapers ? (1)

20. A tank when  $\frac{3}{4}$  full contains 81 litres. What is the capacity of the tank ? (1)

**END OF SECTION A**

**SECTION B: ALGEBRA (20 Marks)**

Name: \_\_\_\_\_

Teacher's Name: \_\_\_\_\_

1. Simplify:  $4a - 2ab + 3a$  (1)

2. Evaluate:  $(3x^4)^2$  (1)

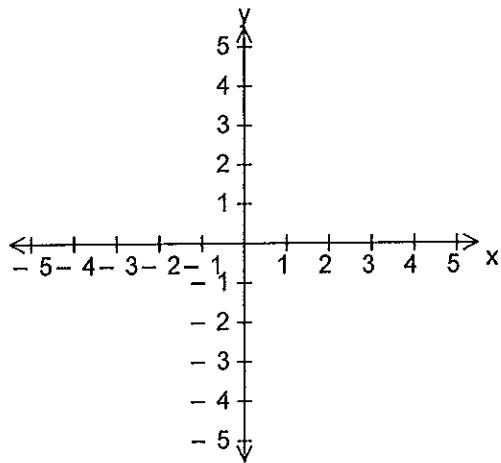
3. Simplify:  $d^2e \times 2d^3e$  (1)

4. Expand and simplify:  $3(2-a) - (a+4)$  (2)

5. Complete the table of values using the given rule and then plot the points. (4)

$y = 2x - 1$

x	-1	0	1	2
y				



6. If  $a = \frac{1}{2}$ ,  $b = -5$  and  $c = 4$  find the value of  $\frac{ab}{c}$ , as a fraction. (1)

7. Tony has  $y$  marbles. His friend Lyn has 5 marbles less than he has.

How many marbles are there altogether ?

(2)

8. Find the rule:

(2)

m	2	4	6	8
t	-6	-8	-10	-12

$$t = \boxed{\quad} m - \triangle$$

9. Solve:  $3x - 2 = 13$

(1)

10. If the first odd number in a pattern is  $n$ , what are the next two consecutive even numbers ?

(2)

11. A number is multiplied by four and then three is added. The answer is twenty seven.  
Write an equation and then solve it to find the number. (3)

**END OF SECTION B**

## **SECTION C: PROBLEM SOLVING (10 Marks)**

Name: \_\_\_\_\_

Teacher's Name: \_\_\_\_\_

1. Linda is five times as old as her daughter Mia. Together their ages add up to 36 years.

How old are Linda and Mia ? (1)

2. How many numerals less than 100 contain the digit 5 ? (1)

3. A can with 30 marbles weighed 120 grams. The same can with 15 marbles weighed 95 grams. What is the weight of the can ? (2)

4. The hare challenges the tortoise to a race. The hare can travel 10 m for every 1m travelled by the tortoise. If they continue to travel at this rate, by how far will the hare beat the tortoise by if the race is over 100 m ? (2)

5. A container when half full holds 3.6 L. How much more fluid is needed to make it  $\frac{2}{3}$  full ? (2)

6. How many different ways can the letters B, H, T and M be arranged so that the T is the 3<sup>rd</sup> or 4<sup>th</sup> letter ? (2)

**END OF SECTION C**

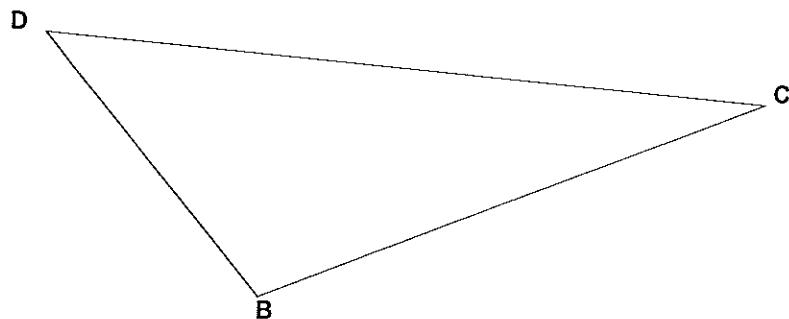
**SECTION D: GEOMETRY (20 Marks)**

Name: \_\_\_\_\_

Teacher's Name: \_\_\_\_\_

1. Draw the net of a pentagonal pyramid. (1)

2. Use a protractor to measure the size of  $\angle DCB$  shown in the diagram. (1)



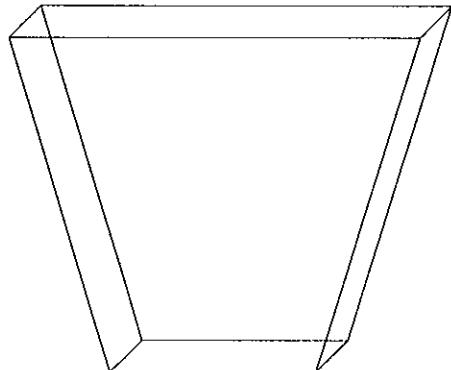
$$\angle DCB = \underline{\hspace{2cm}}$$

3. Draw and label a pair of lines that are perpendicular to each other. (1)

Name: \_\_\_\_\_

Teacher's Name: \_\_\_\_\_

4. How many faces, edges and vertices does the following shape have? (3)

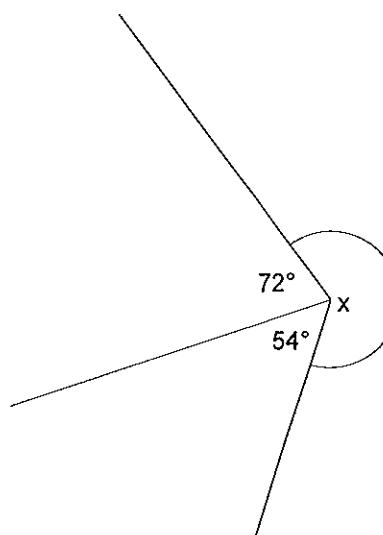


Faces \_\_\_\_\_

Edges \_\_\_\_\_

Vertices \_\_\_\_\_

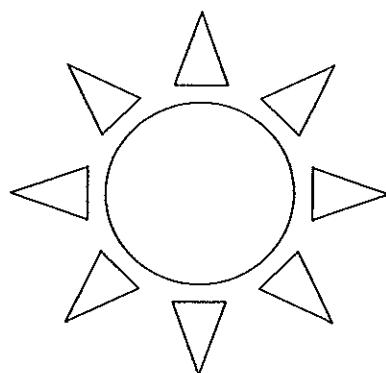
5. Find the value of  $x$ , giving reasons (2)



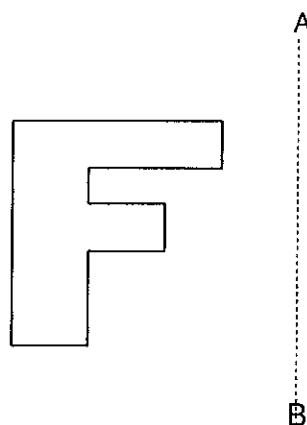
$x =$  \_\_\_\_\_

Reason \_\_\_\_\_

6. Draw ALL the axes of symmetry on the following shape. (2)

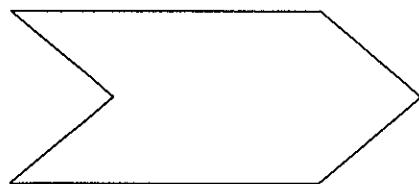


7. Reflect the F about the line AB (1)



8. Write a property of a trapezium (you may use a diagram to help you). (1)

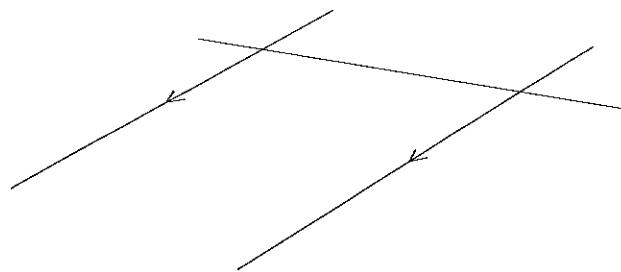
9. Can the following shape tessellate? (1)



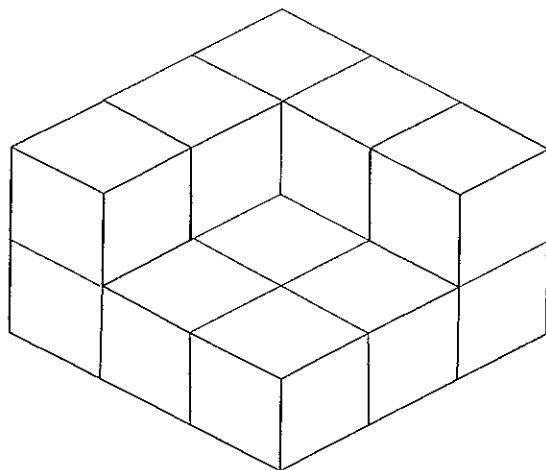
Name: \_\_\_\_\_

Teacher's Name: \_\_\_\_\_

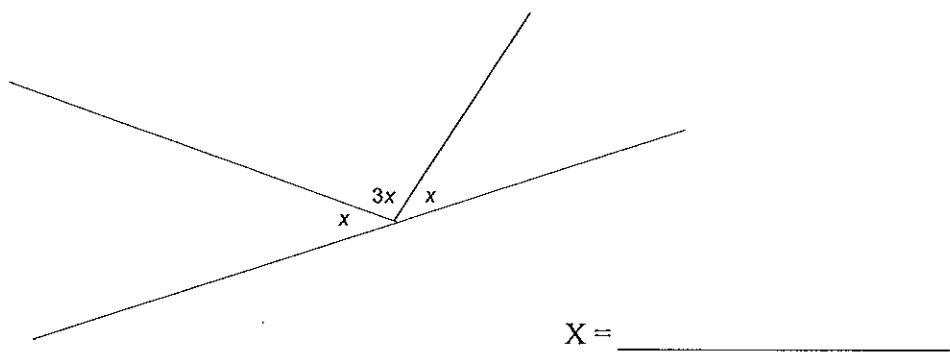
10. Draw and label a pair of corresponding angles. (1)



11. How many cubes make up the following diagram? (1)



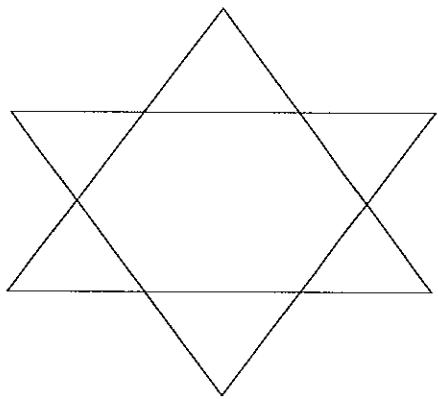
12. Find the value of  $x$  (2)



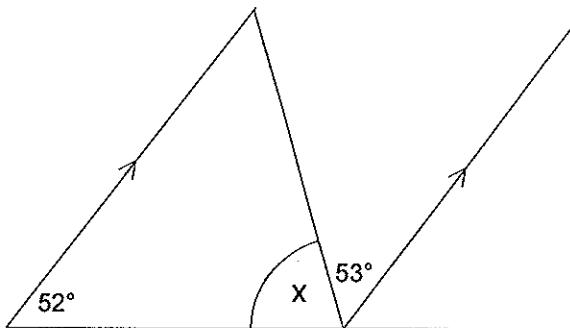
$$X = \underline{\hspace{2cm}}$$

13. What is the obtuse angle between the hour and minute hand at 4 o'clock? (1)

14. The Star of David consists of two equilateral triangles. Name another shape in the Star. (1)



15. Find the value of  $x$ . (1)



$$x = \underline{\hspace{2cm}}$$

**END OF SECTION D**

**SECTION E: MEASUREMENT (20 Marks)** Name: \_\_\_\_\_  
 Teacher's Name: \_\_\_\_\_

**QUESTIONS 1-5 (1 mark each)**

**ANSWER**

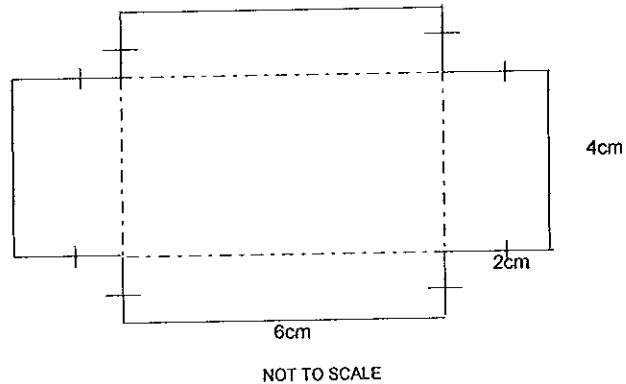
1. Convert 23 mm to m.	
2. Convert 2 hours to seconds.	
3. Convert 42.7 km to m.	
4. Convert 3.2 L to mL.	
5. Convert 150 g to kg	

6. What is the time difference between 10.54 am and 7.19 pm ? (1)

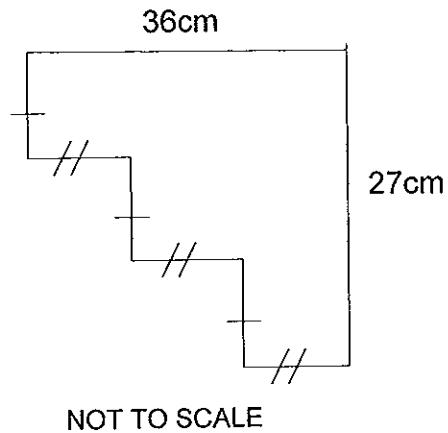
7. Measure the line AB to the nearest mm. (1)

A —————— B

8. If an open box was made by folding along the dotted lines, what would the volume be ? (2)



9. Find the perimeter and area of the following shape. (4)



10. A rectangular paddock has dimensions 100 m and 250 m.

Find the cost of fencing the paddock if fencing is \$7.50 per metre.

(1)

11. A rectangular carpet square 3.5 m by 5 m is placed in the centre of a square floor with side length 7 m. What floor area is not covered by the carpet ? (2)

Name: \_\_\_\_\_

Teacher's Name: \_\_\_\_\_

12. A room has an area of  $26 \text{ m}^2$  and is 5 m long. How wide is the room ? (2)

13. A container measures 0.9 m by 0.6 m by 0.5 m. Calculate how many boxes will fit in the container if each box occupies  $0.01 \text{ m}^3$ . (2)

**END OF SECTION E**

## **SECTION F: PROBLEM SOLVING (10 Marks)**

Name: \_\_\_\_\_

Teacher's Name: \_\_\_\_\_

1. Twenty-seven one centimetre cubes are used to build a cube with side length 3 cm. The cube is then painted red. How many of the one-centimetre cubes will have only 2 faces painted? (2)

2. Approximately 55 bricks are needed to build 1 square metre of wall. How many bricks would be needed to build a wall 17 m long and 2.7 m high if the wall has two windows, each 2.3 m long and 1.2 m high? (2)

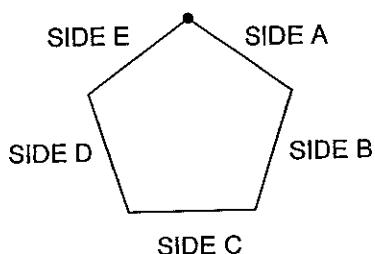
3. A tin whose base is a rectangle 15 cm by 20 cm contains 3 litres of water. What is the depth of the water? ( $1L = 1000 \text{ cm}^3$ ) (2)

Name: \_\_\_\_\_

Teacher's Name: \_\_\_\_\_

4. Farmer Bill put a square fence around his vegetable garden to keep the deer away from his vegetables. One side of the square is 10 m long. If the fence posts were 2 m apart, how many posts did Farmer Bill use? (1)

5. Shane the snail crawled around a regular pentagon. He started at the dot. What side will he be on when he has crawled a distance of  $\frac{13}{20}$ ? (1)



5. A one metre square sheet of cardboard is cut into the maximum number of squares of side one millimetre. If these squares could be laid side by side, how far would they stretch? (2)

**END OF SECTION F**

YEAR 8 / 9 TEST

SECTION A: NUMBER (20 Marks) 82% Name: Andrew  
Teacher's Name: \_\_\_\_\_

QUESTIONS 1-10 (1 mark each)

1. Write $\frac{3}{8}$ as a decimal.	$37.5X \quad 0.375$
2. Convert $8\frac{1}{4}\%$ to a fraction.	$\frac{33}{25}X \quad \frac{33}{400}$
3. Write 10.203 in expanded form.	$(10 \cdot 1000 + 200 + 3) \checkmark$
4. Round 21.379 to the nearest tenth.	$21.4 \checkmark$
5. Express $\frac{18}{45}$ as a percentage.	$40\% \checkmark$
6. Calculate $(-3)^2 - (-4)^2$ .	$-7 \checkmark$
7. Evaluate $\frac{2x-3+12-x-4}{-6+3}$ .	$-\frac{3}{2} \text{ or } -1\frac{1}{2}X - 9$
8. $\frac{4}{5}$ is equivalent to $\frac{48}{\underline{60}}$ .	$\frac{48}{60} \checkmark$
9. Find 15% of \$2.40	$36\& \checkmark$
10. Arrange in ascending order:	$0.203, 0.23, 0.0203, 0.302$

ANSWER

$37.5X \quad 0.375$

$\frac{16}{20}$

10. Arrange in ascending order:

$0.203, 0.23, 0.0203, 0.302$

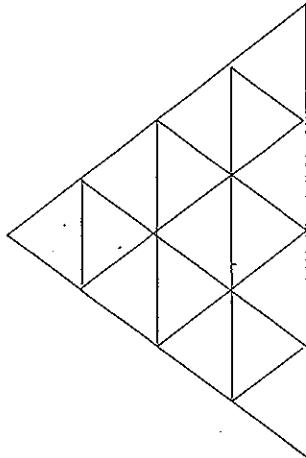
13. Evaluate:  $\frac{1}{3} - \frac{6}{11}$  (1)

$$\begin{aligned} & \frac{1}{3} - \frac{6}{11} = \\ & = \frac{4}{11} \\ & = \frac{4}{33} - \frac{18}{33} \\ & = \frac{-14}{33} \end{aligned}$$

14. Evaluate:  $\frac{8}{5} \times \frac{5}{8}$  (1)

$$\begin{aligned} & \frac{8}{5} \times \frac{5}{8} \\ & = \frac{40}{40} \\ & = 1 \end{aligned}$$

15. What fraction of the diagram is shaded?



16. Insert brackets to make this statement true. (1)

$(9 \div 3 + 4) \times 7 = 49 \checkmark$

17. A tin of fishcake mix contains 240g of salmon, 126g of potato, 24g of seasoning and 16g of cornflour. Find the percentage by weight of salmon. (1)

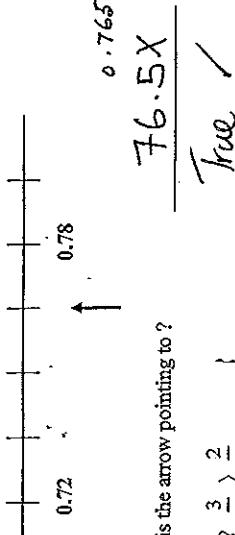
551. /

1

$\frac{240}{436} \quad \frac{280}{436} \quad \frac{240}{436}$

$\frac{24}{436} \quad \frac{156}{436} \quad \frac{16}{436}$

$\frac{240}{436} + \frac{24}{436} + \frac{156}{436} + \frac{16}{436} = \frac{436}{436}$



What number is the arrow pointing to?

$76.5X \quad \text{True} \checkmark \quad (1)$

11.

2

## SECTION B: ALGEBRA (20 Marks)

Name: \_\_\_\_\_  
Teacher's Name: \_\_\_\_\_

Name: \_\_\_\_\_

Teacher's Name: \_\_\_\_\_

18. Mark bought a barrel containing 30 L of orange juice.  
 If he drank  $1\frac{1}{4}$  L every day, how long will the barrel last? (1)

$$24 \text{ days } \checkmark$$

$$\frac{1}{4}L \times 4 = 5 \\ 5 \sqrt{30} \quad 6 \cancel{+5} \quad 6 \times 4 = 24$$

19. Matthew receives \$36 per 1 000 newspapers he delivers, how much will he receive if he delivers 2 500 newspapers? (1)

$$\frac{72}{2} \quad \frac{18}{90} \quad \checkmark$$

20. A tank when  $\frac{3}{4}$  full contains 81 litres. What is the capacity of the tank? (1)

$$\frac{3}{4} \approx 81L$$

$$\frac{1}{4} = 2\pi L \quad \checkmark$$

END OF SECTION A

## SECTION B: ALGEBRA (20 Marks)

Name: \_\_\_\_\_  
Teacher's Name: \_\_\_\_\_

1. Simplify:
- $4a - 2ab + 3a$

$$7a - 2ab \quad \checkmark$$

2. Evaluate:  $(3x^4)^2 = 3x^4 \times 3x^4 = 9x^8$   
 $3x \times 3x \times 3x \times 3x = 81x^8 \quad \cancel{\checkmark}$  (1)

3. Simplify:  $a^2e \times 2a^3e \rightarrow 2a^5e^2$   
 $da \times ea \times da \times ae$  (1)

4. Expand and simplify:  $3(2-a)-(a+4) \rightarrow 2-4a$   
 $6 - 3a - a + 4 \rightarrow 6 + 4 - 2a$   
 $6 - 2a + 4 \rightarrow 10 - 2a \quad X$  (2)

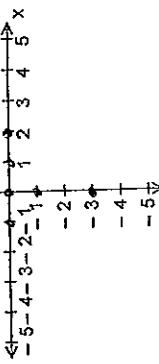
5. Complete the table of values using the given rule and then plot the points. (4)

$$y = 2x - 1$$

x	-1	0	1	2
y	-3	-1	1	3

coord. geometry!

(1)



6. If  $a = \frac{1}{2}$ ,  $b = -5$  and  $c = 4$  find the value of  $\frac{ab}{c}$ , as a fraction. (1)

$$\frac{axb}{c} \quad -\frac{5}{2} \div \frac{4}{7} = -\frac{5}{2} \times \frac{1}{4} \\ = -\frac{5}{8}.$$

3

4

7. Tony has  $y$  marbles. His friend Lyn has 5 marbles less than he has.  
How many marbles are there altogether?

$$\text{Tony} = 9 \\ \text{Lyn} = y - 5 \\ \text{Lyn} + \text{Tony} = 2y - 5$$

Find the rule:

$m$	2	4	6	8
$t$	-6	-8	-10	-12

$$t = \boxed{\square} m - \triangle 4 \quad \checkmark$$

$$9. \text{ Solve: } 3x - 2 = 13 \\ 3x - 2 = 13 \\ 3x = 13 + 2 \\ 3x = 15$$

10. If the first odd number in a pattern is  $n$ , what are the next two consecutive even numbers?

$$\text{odd} \\ \text{even} \quad n+1 \quad \text{and} \quad n+3 \\ \text{even} \quad \text{even}$$

11. A number is multiplied by four and then three is added. The answer is twenty seven.

Write an equation and then solve it to find the number.

$$(2x \times 4) + 3 = 27 \quad \checkmark \\ (4x) + 3 = 27 \\ (4x) = 27 - 3 \\ (4x) = 24 \quad \checkmark \quad \text{END OF SECTION B}$$

$$\frac{4(4x)}{4} = \frac{24}{4} \quad \checkmark \\ x = 6$$

### SECTION C: PROBLEM SOLVING (10 Marks)

(2)

Name: \_\_\_\_\_  
Teacher's Name: \_\_\_\_\_

1. Linda is five times as old as her daughter Mia. Together their ages add up to 36 years.  
How old are Linda and Mia?

(2)

$$\text{Mia} = 6 \quad \text{Linda} = 30 \quad \checkmark$$

$$\frac{10}{10}$$

2. How many numerals less than 100 contain the digit 5?

$$\begin{matrix} 5 & 50 & 55 & 65 \\ 15 & 51 & 56 & 75 \\ 25 & 52 & 57 & 85 \\ 35 & 53 & 58 & 95 \\ 45 & 54 & 59 & 95 \end{matrix} \quad 19 \quad \checkmark$$

3. A can with 30 marbles weighed 120 grams. The same can with 15 marbles weighed 95 grams. What is the weight of the can?

(1) (2)

$$\begin{matrix} 20 \text{ marbles} = 120 \text{ grams} \\ 2 \times 15 \text{ marbles} = 95 \text{ grams} \\ 30 \text{ marbles} = 120 \text{ grams} \\ \hline \text{Container} = 70 \text{ grams} \end{matrix} \quad \checkmark$$

4. The hare challenges the tortoise to a race. The hare can travel 10 m for every 1 m travelled by the tortoise. If they continue to travel at this rate, by how far will the hare beat the tortoise by if the race is over 100 m? **90 metres**

**SECTION D: GEOMETRY (20 Marks)**

Name: \_\_\_\_\_  
Teacher's Name: \_\_\_\_\_

10 m / 1 m	Tortoise	Hare
1 metre	10 metres	100 metres
100 metres	100 metres	$\frac{100}{10} = 10$

5. A container when half full holds 3.6 L. How much more fluid is needed to make it  $\frac{2}{3}$  full? **4.8 L**

$$\frac{1}{2} = 3.6L \quad \frac{1}{2} \times 3 = ? \quad \frac{3}{6} \quad \frac{4}{6}$$

$$\frac{2}{3} = ? \quad 3.6L = ?$$

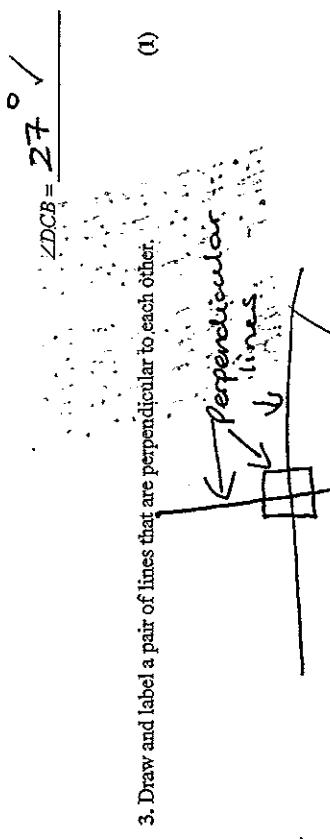
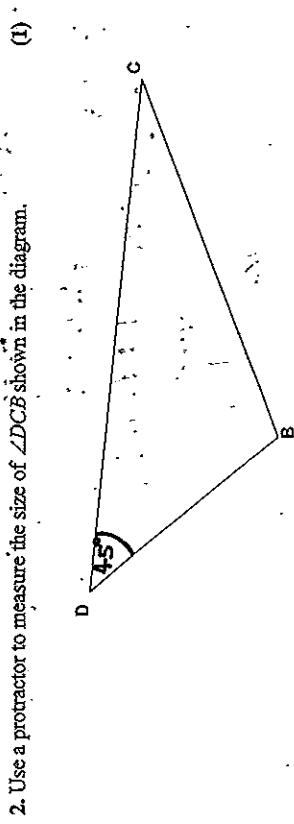
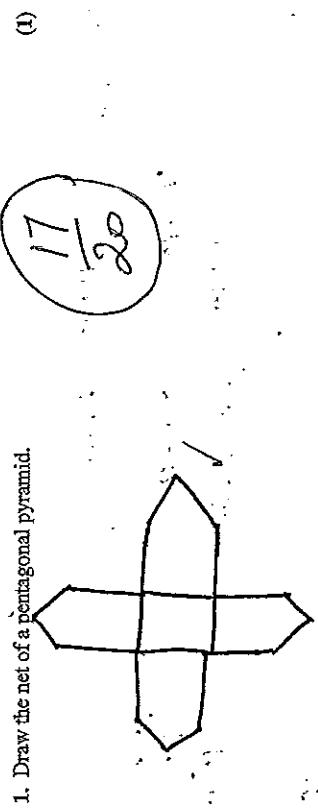
$$1 = 7.2 \quad 14.4 \div 3$$

6. How many different ways can the letters B, H, T and M be arranged so that the T is the 3<sup>rd</sup> or 4<sup>th</sup> letter? **12.**

$$\begin{array}{|c|c|c|c|} \hline & 1 & 1 & 3 \\ \hline 3 & \times & \times & \times \\ \hline \end{array} = 6$$

$$\frac{6}{12} = \frac{6}{12}$$

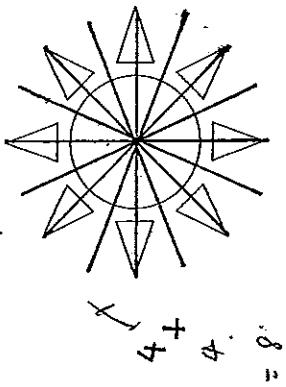
BHTM BHMT  
 BNTH BMHT  
 MBTH MBHT  
 MHTB MBT  
 HBTM HBMT  
 HMTB HMST



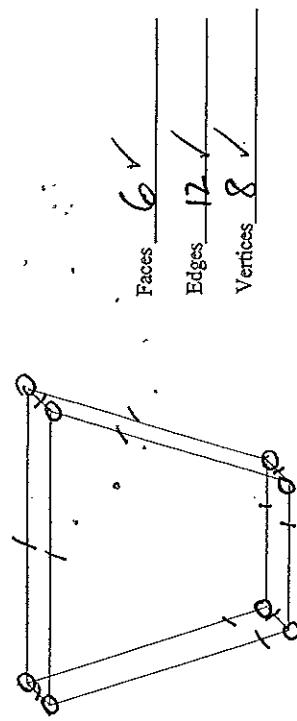
END OF SECTION C

Name: \_\_\_\_\_  
Teacher's Name: \_\_\_\_\_

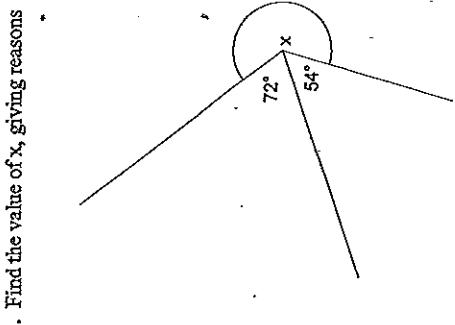
6. Draw ALL the axes of symmetry on the following shape. (2)



4. How many faces, edges and vertices does the following shape have? (3)

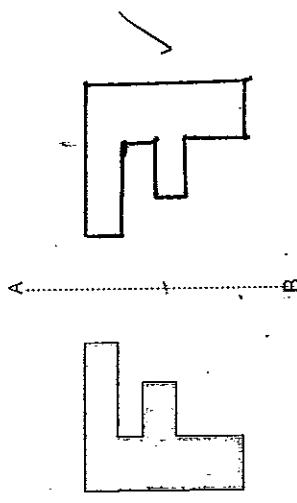


5. Find the value of  $x$ , giving reasons (2)



5. Find the value of  $x$ , giving reasons (2)

7. Reflect the F about the line AB. (1)



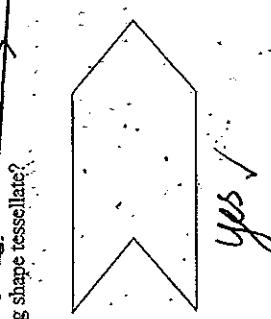
(1)

(2)

8. Write a property of a trapezium (you may use a diagram to help you). (1)

a trapezium only  
has one ~~one~~  
pair of parallel sides.

(1)



Yes ✓

Reason The two angles  $72^\circ$  and  $54^\circ$   
are portions of the  $\star x$   
and since  $\star x$  is a revolution  
i.e  $360^\circ - 72^\circ + 54^\circ$   
 $= 360^\circ - 126^\circ$   
 $= 234$

9

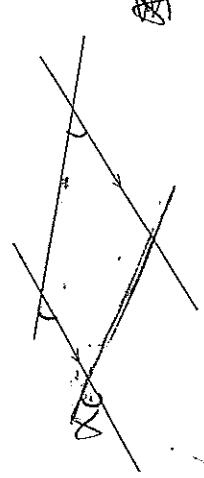
(1)

(1)

10

Name: \_\_\_\_\_  
Teacher's Name: \_\_\_\_\_

10. Draw and label a pair of corresponding angles.

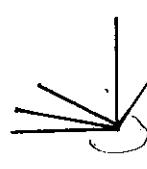


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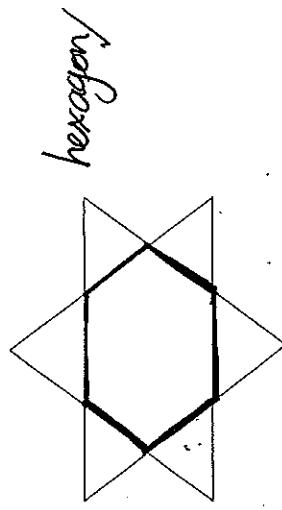
$240^\circ$  ✓

13. What is the obtuse angle between the hour and minute hand at 4 o'clock?

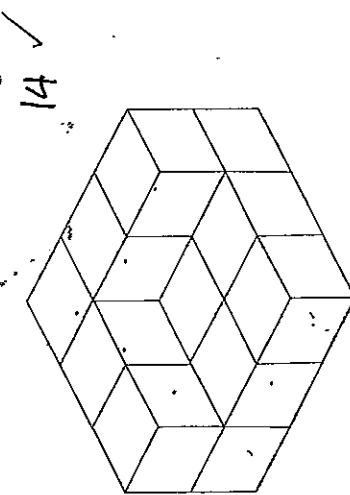
(1)



14. The Star of David consists of two equilateral triangles. Name another shape in the Star. (1)



(1)

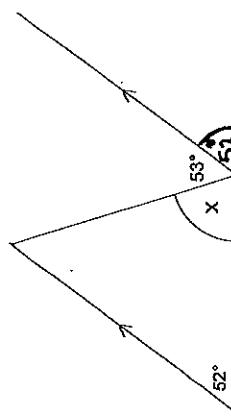


11. How many cubes make up the following diagram?

14 ✓

(1)

15. Find the value of x.



$$\frac{180}{105}$$

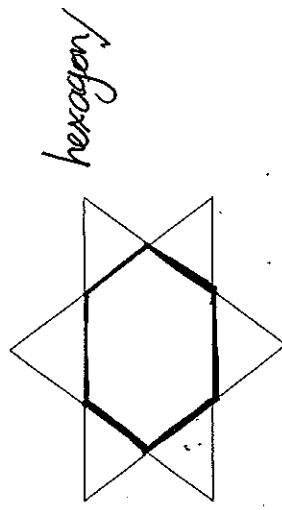
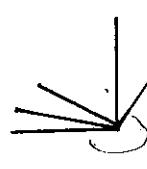
(2)

$$x = 75^\circ \checkmark$$

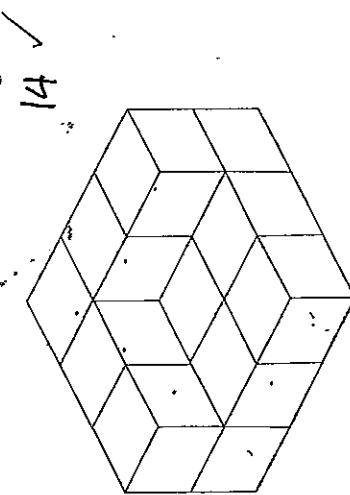
(1)

13. What is the obtuse angle between the hour and minute hand at 4 o'clock?

(1)



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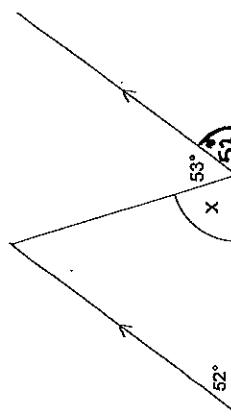


11. How many cubes make up the following diagram?

14 ✓

(1)

(1)



$$\frac{180}{105}$$

$$x = 75^\circ \checkmark$$

END OF SECTION D

**SECTION E: MEASUREMENT (20 Marks)**

Name: Peter  
Teacher's Name: Andrew Taylor

9. Find the perimeter and area of the following shape.

QUESTIONS 1-5 (1 mark each)		ANSWER
1. Convert 23 mm to m.		0.023 ✓
2. Convert 2 hours to seconds.	✓	7200 ✓
3. Convert 42.7 km to m.		42700 ✓
4. Convert 3.2 L to mL.		3200 ✓
5. Convert 150 g to kg		0.15 ✓

6. What is the time difference between 10:54 am and 7:19 pm?

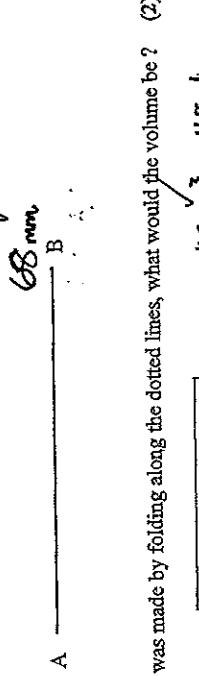
8 hours and 25 mins

7. Measure the line AB to the nearest mm.

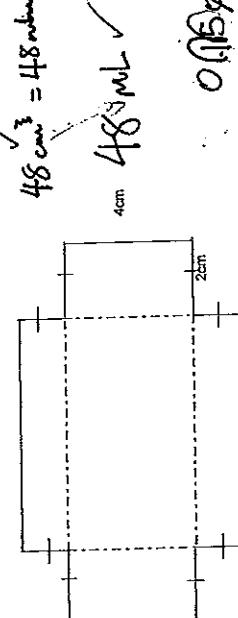


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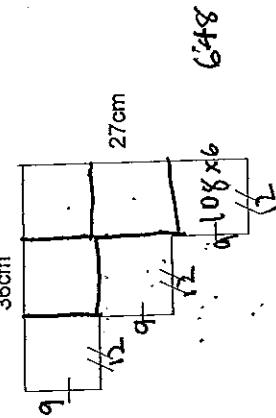


3.200

1.00

1.06  
7.19  
10 mm = 1 cm  
100 mm = 1 m  
1000

NOT TO SCALE



$$\begin{array}{r} 27 \\ \times 24 \\ \hline 648 \end{array}$$

NOT TO SCALE

$$\begin{array}{l} \text{Perimeter} = 126 \text{ cm} \\ \text{Area} = 648 \text{ cm}^2 \end{array}$$

✓

126

(1)

$$\begin{array}{l} \text{Find the cost of fencing the paddock if fencing is } \$7.50 \text{ per metre.} \\ 2(100 + 250) \times \$7.50 \\ = \$5250 \end{array}$$

✓

✓

(2)

11. A rectangular carpet square 3.5 m by 5 m is placed in the centre of a square floor with side length 7 m. What floor area is not covered by the carpet?

$$31.5 \text{ m}^2 \checkmark$$

13

14

Name: \_\_\_\_\_  
Teacher's Name: \_\_\_\_\_

## SECTION F: PROBLEM SOLVING (10 Marks)

Name: \_\_\_\_\_  
Teacher's Name: \_\_\_\_\_

12. A room has an area of  $26 \text{ m}^2$  and is 5 m long. How wide is the room? (2)

$$5.2 \text{ m} \checkmark$$

1. Twenty-seven one centimetre cubes are used to build a cube with side length 3 cm. The cube is then painted red. How many of the one-centimetre cubes will have only 2 faces painted? (2)

$$\frac{8}{10}$$

$$12 \checkmark$$

13. A container measures 0.9 m by 0.6 m by 0.5 m. Calculate how many boxes will fit in the container if each box occupies  $0.01 \text{ m}^3$ . (2)

$$27000 \text{ on}$$

$$27$$

$$\frac{0.9 \times 0.6 \times 0.5 \text{ m}^3}{0.01 \text{ m}^3} = 27 \checkmark$$

2. Approximately 55 bricks are needed to build 1 square metre of wall. How many bricks would be needed to build a wall 17 m long and 2.7 m high if the wall has two windows, each 2.3 m long and 1.2 m high? (2)

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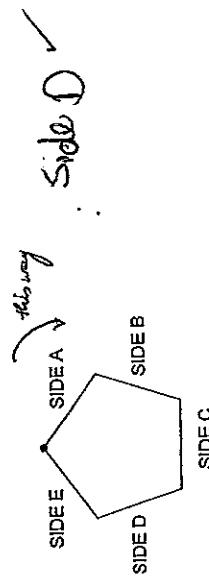
Name: \_\_\_\_\_  
Teacher's Name: \_\_\_\_\_

4. Farmer Bill put a square fence around his vegetable garden to keep the deer away from his vegetables. One side of the square is 10 m long. If the fence posts were 2 m apart, how many posts did Farmer Bill use? (1)

6 posts

$$\begin{array}{l} 6 \times 4 - 4 \\ = 20 \text{ posts} \end{array}$$

5. Shane the snail crawled around a regular pentagon. He started at the dot. What side will he be on when he has crawled a distance of  $\frac{13}{20}$  ? (1)



5. A one metre square sheet of cardboard is cut into the maximum number of squares of side one millimetre. If these squares could be laid side by side, how far would they stretch? (2)

100 mm ✓ = 1 km.

END OF SECTION F

{1}-{1}-{1}