

Summative Test

Test Time: 60 minutes

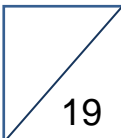
First Name

Class

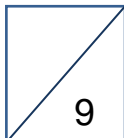
Last Name

Date

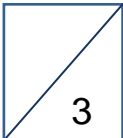
School

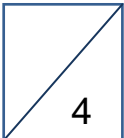
Number  19

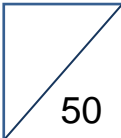
Measurement  8

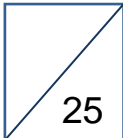
Geometry  9

Algebra  7

Probability  3

Statistics  4

Written  50

Mental  25

1. A landscape company uses the following rule to calculate the cost of paving bricks.

$$\text{Cost in dollars} = (\$16 \times \text{area in square metres}) + \$3 \times \text{delivery distance in kilometres}$$

Grace paid the brick company \$1631 for 95 m² of bricks plus delivery to her house.

How far did the brick company have to take the bricks to deliver them to Grace?

2. Alan buys 4 kg of pears and one watermelon from a greengrocer.

pears @ \$2.90 per kilo

watermelon @ \$3.80 each

How much does he pay for the fruit altogether?

3. Barry paid \$3999 for some sheep.

He paid the same amount for each sheep.

The cost for each sheep was a whole number of dollars.

Which of the following could be the number of sheep Barry bought?

(Tick your answer)

45

43

40

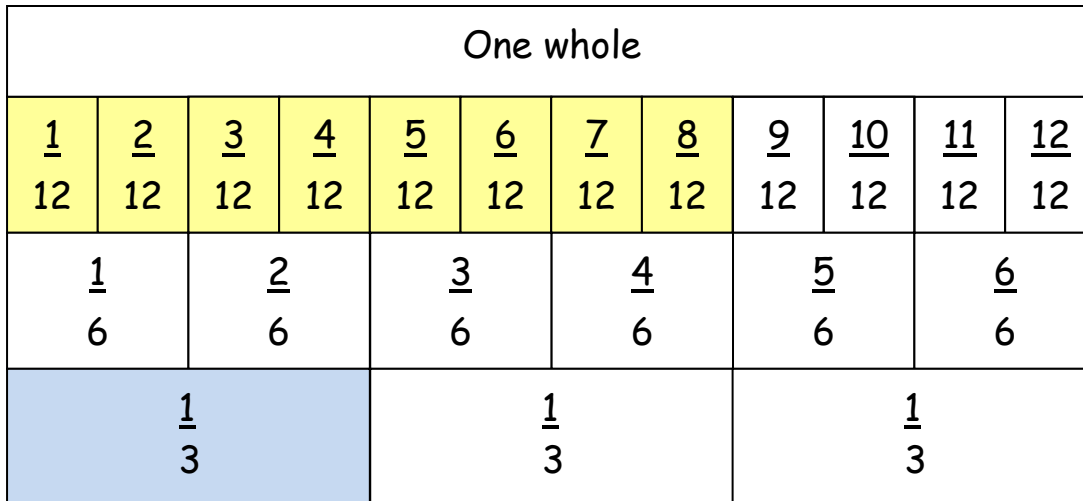
42

4. Last year 396 people attended our football team's family day.

The number of people who came this year was $\frac{2}{3}$ of last year's figure.

How many people came to the family day this year?

5. The fractions $\frac{8}{12}$ and $\frac{1}{3}$ have been shaded on this fraction wall.



What is $\frac{8}{12} - \frac{1}{3}$ equal to?

6. A prize of \$12 618 is shared between 12 friends.

How much does each person get in dollars and cents?

7. The table below shows the favoured sports at school.

Favourite sport	Number of students
basketball	19
cricket	28
swimming	10
athletics	13

Which sport did $\frac{2}{5}$ of the students choose as their favourite?

8. Bill has started to tile his floor. His tiles are rectangles where one pair of sides is double the length of the other pair of sides.

Bill calculated his floor was $9\frac{1}{2}$ tiles long and $5\frac{1}{2}$ tiles wide.

How many whole tiles does he need to cover the floor?

9. Paula's new electric hybrid car uses approximately 4.0 L of fuel per 100 km.

Her old car used approximately 8.0 L of fuel per 100 km.

Paula pays an average \$1.50 per litre for fuel and drives an average 20 000 km per year.

How much money does Paula save per year now she has the new car?

10. Write the missing number to complete the number sentence.

$$270 \times 18 \div 3 = 3 \times 90 \times \square$$

11. Write the smallest whole number in the box that makes this number sentence correct.

$$42 + 13 < \square \times 5$$

12. Tick the correct answer.

	4350	4.305	403.5	4.035
$403.5 \div 100 =$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

13. Which calculation is NOT another way of working out 18×70 ?

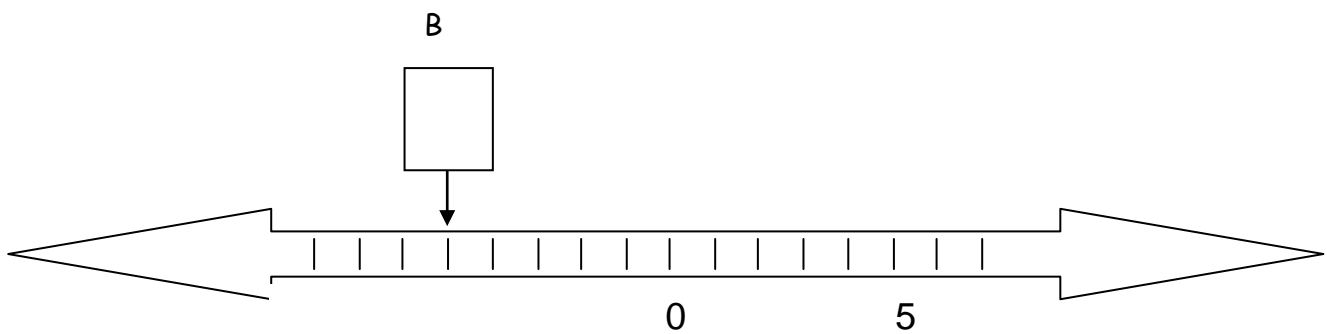
$19 - 1 \times 70$	$18 \times 71 - 18$	$70 \div 2 \times 36$	$(10 + 8) \times 10 \times (4 + 3)$
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

14. This is the label from a can of Soup d'loup mix.

What is the mass of 4 serves of Soup d'loup mix?

Soup d'loup		
	Quantity	
	Per 100 g	One serve
ENERGY	175 kJ	525 kJ
PROTEIN	0.8 g	2.4 g
FAT	0.5 g	1.5 g
CARBOHYDRATE	6.9 g	20.7 g
- SUGARS	6.5 g	19.5 g
SODIUM	0.3 g	0.9 g

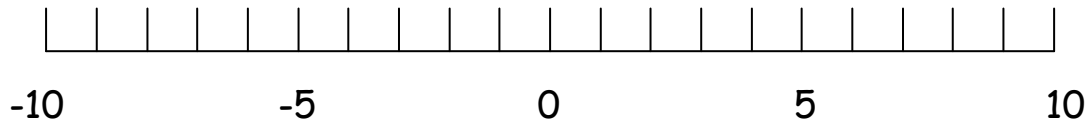
15. Write the number at B on the number line.



16. Write the difference between the two numbers: -2 and 6

17. Solve:

$$-4 + (-3) =$$



18. Write the answer as whole number:

$$3 \times 10^3 \times 2 \times 10^1 =$$

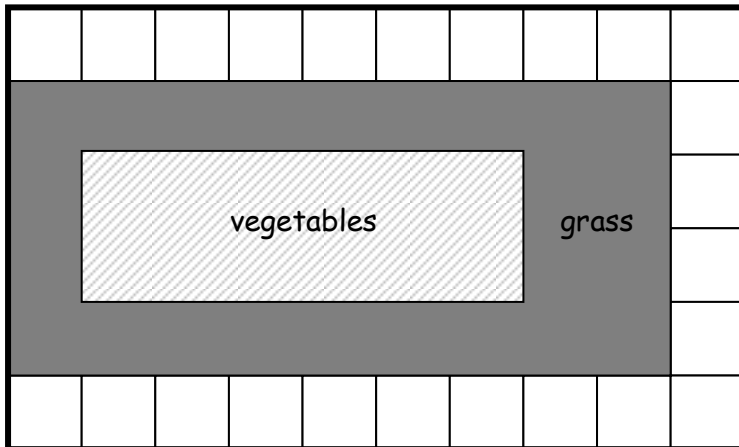
19. Peta bought a bike at a sale at 20% off the original price of \$250.
How much did Peta pay for the bike?

20. This table shows the times of the first 4 runners in a marathon race.
Write the times in finishing order.

2:05.01	2:04.59	2:06:00	2:06:50
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1 st place	2 nd place	3 rd place	4 th place

21. This is a diagram of a garden.
What is the area of the vegetable patch?



Scale

= 2 m²

22. Which metric unit would you use to measure the space inside a room?

cubic metres

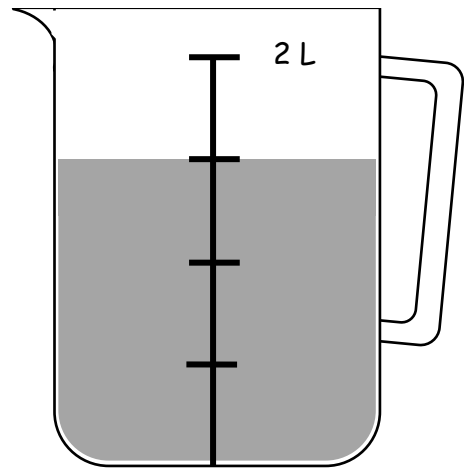
square metres

cubic kilograms

cubic litres

TEST 7 MEASUREMENT

23. How much more water is needed to fill the jug to 2 L?



24. Which of these is the longest distance?

0.005 km

1.05 m

1005 cm

10 005 mm

25. A map is drawn to a scale of 5 cm = 1 km.

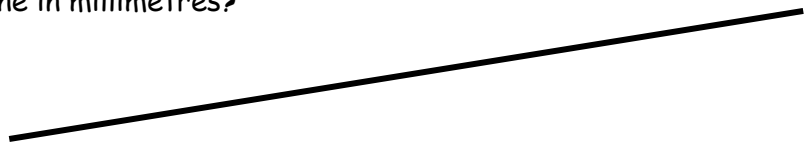
A farm boundary on the map measures 25 cm long and 15 cm wide.

What are the real-life dimensions of the farm?

length

width

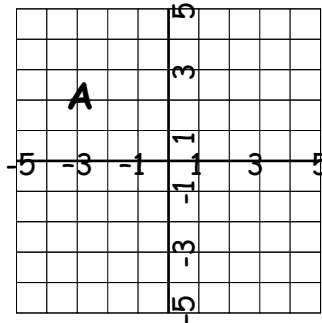
26. What is the length of this line in millimetres?



27. A rectangular block has the long sides triple the length of the short sides. It has an area of 1200 m².

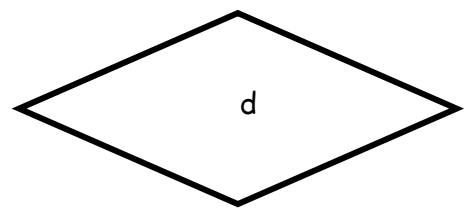
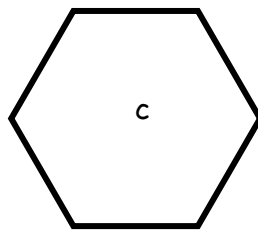
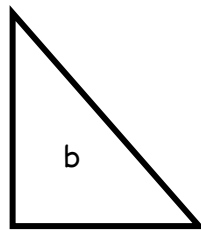
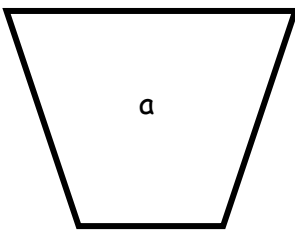
The perimeter of the block is

28. Describe the point location for **A**.

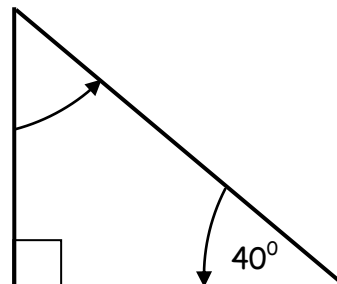


29. Tick the shape that has:

- exactly 2 pairs of parallel sides, and
- exactly 2 obtuse angles.



30. What is the size of the missing angle?

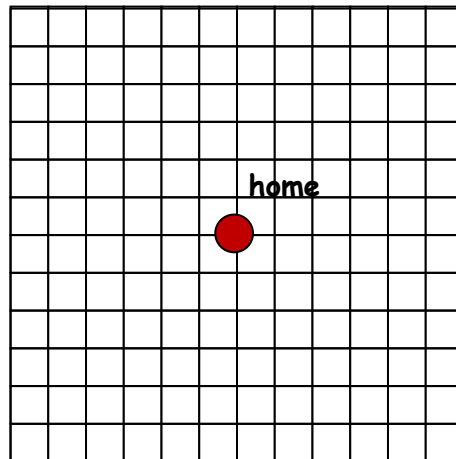


31. Scott leaves home and rides to school on his bike.

He records the trip as 3E, 4S.

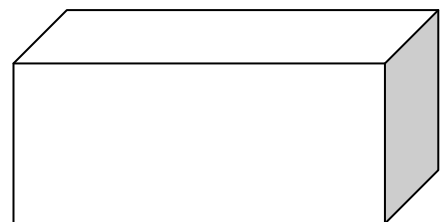
How many of these routes could Scott take to get back home?

3W, 4N
2E, 4N, 5W
3W, 1N, 3W, 3N
1E, 1N, 3W, 3N



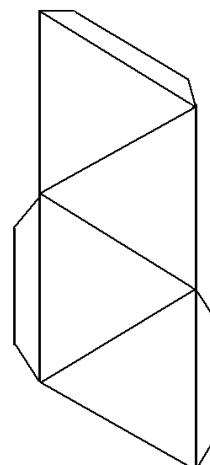
32. This diagram represents a 3D object.

The object is a

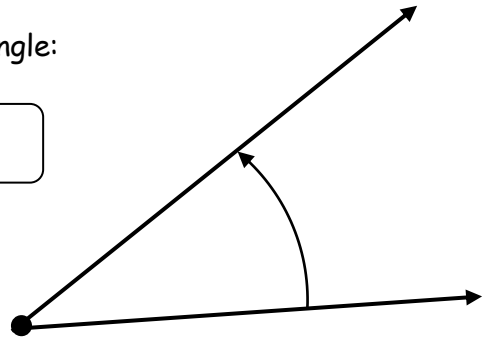


33. This net represents a 3D object.

The object is a

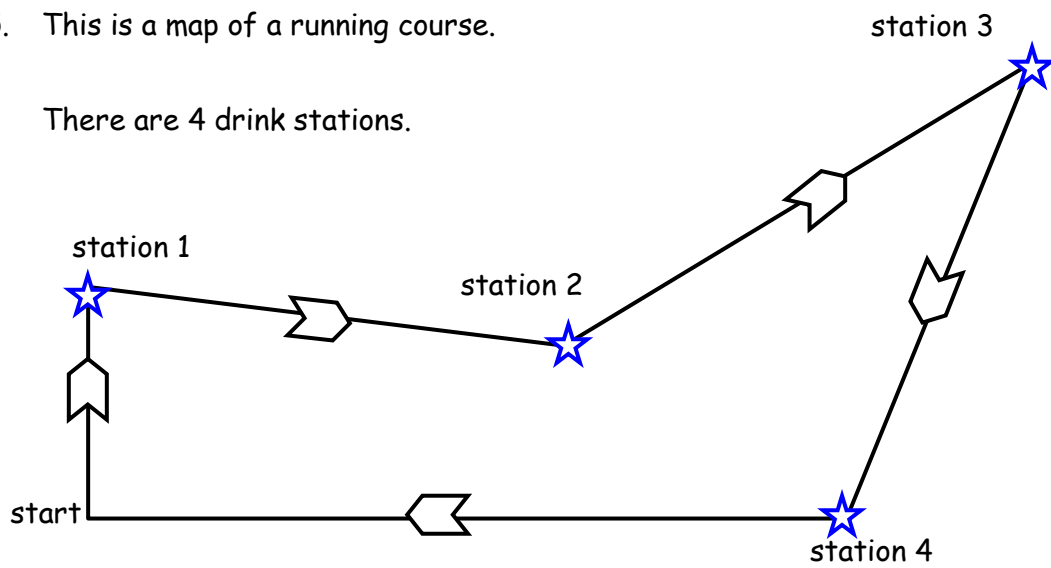


34. Use your protractor to measure and record this angle:



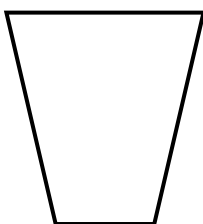
35. This is a map of a running course.

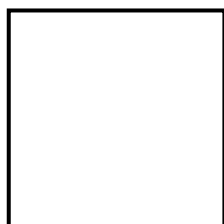
There are 4 drink stations.

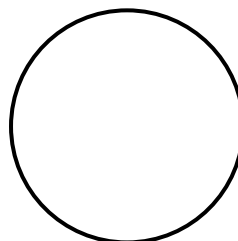


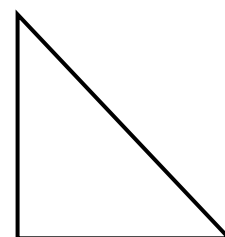
How many changes of direction greater than 90° are made by the runners?

36. Tick the shape or shapes with more than one line of symmetry.



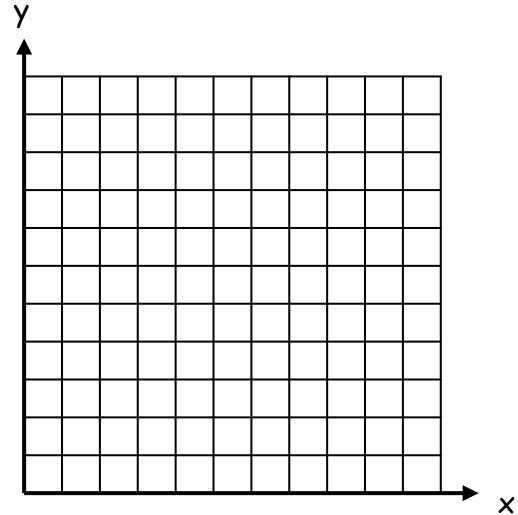






37. Graph the equation:

$$y = 2x$$



38. Add and subtract the like terms:

$$3p + 4y - 2p + y = \boxed{}$$

39. Use the variables x and y to write an equation for this statement: (e.g. $y = 3x + 3$)

To find y , multiply a number by 4 and add the square of 3.

$$\boxed{y = }$$

40. Find a number to satisfy the equation:

$$3p + 2 - p = 8$$

$$\boxed{p = }$$

41. Find the first three 3 whole numbers to satisfy the equation: $n + 4 > 9$

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42. Solve the equation: $54 \div 6 \times 4 - 4 \times (4 + 5) =$

43. Write a rule for this sequence of numbers:

Rule

$y =$

p	y
0	1
1	3
2	5
3	7
4	9

44. 1 Ace, 1 King, 1 Queen and 2 Jack cards are placed face down on a desk:

If you turn over 3 cards, how many different combinations might occur? Tick your selection.

7	3	6	4
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

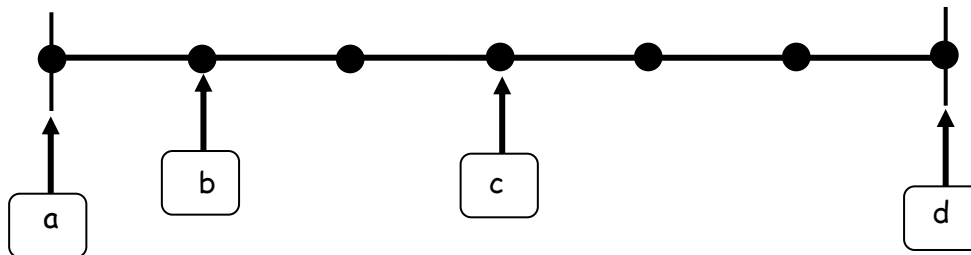
45. 1 Ace, 1 King, 1 Queen and 2 Jack cards are placed face down on a desk:

If you select one card, what are the chances of you turning over a Jack? Tick your selection.

$\frac{2}{4}$	$\frac{2}{5}$	$\frac{2}{3}$	$\frac{2}{6}$
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

46. Imogene rolls a 6-sided die

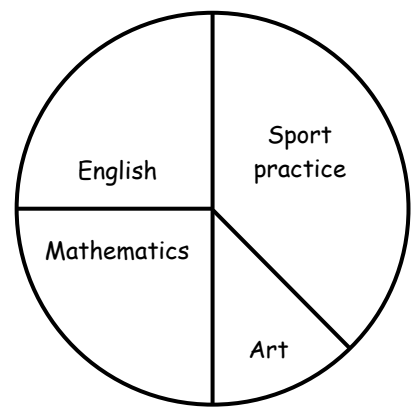
Tick the point on the number line that best shows the chance of Imogene rolling a 1.



47. Use lines to link the data collection activity with the best graph for presenting the data:

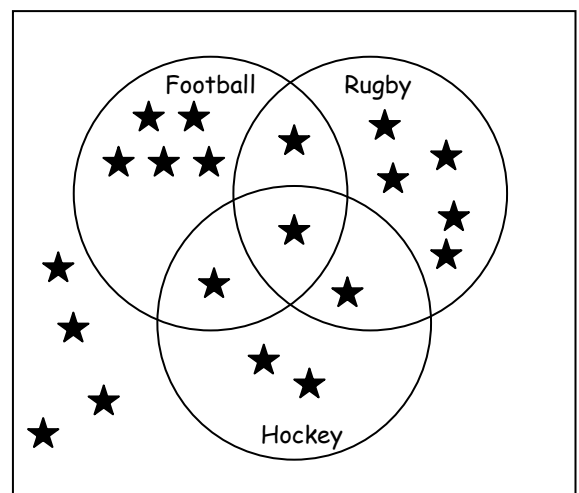
a Data collected on the growth rate of a plant.	Bar graph
b Data collected on fuel consumption for a range of different cars.	Circle graph
c Data collected to compare populations in 12 countries.	Line graph

48. The circle graph shows the portion of time Sara spent on homework in each subject last week. If Sara spent 1 hour on art:



How much time did she spend on sport practice?

49. A group of 20 boys were asked to record the sport they had played in winter. Tick the only true statement:



- a One in four boys did not play a winter sport.
- b Football was more popular than rugby.
- c Four boys played more than one sport.

50. What is the mean (average) score for this set of 5 test results out of 30?

15/30	22/30	22/30	9/30	22/30
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