MTSonline

Summative Test

Y5

2015

Test Time: 60 minutes

First Name

Class

Last Name

Date

School

Number	/18	Algebra	/4	Measurement	/8
Geometry	/9	Statistics	/3	Probability	/3
Proficiency * See Guidelines	/10	**Written**	/55	**Mental**	/20

TEST Y5 NUMBER AND ALGEBRA

1. Find an approximate total by rounding to the nearest 100.

$37 + 103 + 218 + 749 =$ ☐

2. 9 mountain bikes, all the same model, have a total value of $11 700.
What is the cost of each bike?
Tick your answer.

$1 300 ☐ $1 700 ☐ $1 900 ☐

3. Find the answer.

$$\begin{array}{r} 76 \\ \times\ 8 \\ \hline \square \end{array}$$

4. Find the answer.

$82 \times 34 =$ ☐

5. Find the answer.

$3\,045 \div 5 =$ ☐

6. Find the answer.

☐

$2 \overline{)\$191}$

7. A car travels 8 km on a litre of fuel.
What is the approximate amount of fuel you would use to travel 795 km? Tick your answer.

100 L ☐ 89 L ☐ 130 L ☐

8. A large pop-corn machine makes 96 scoops of popcorn in one hour.
Each popcorn box sold contains 2 scoops and costs $4.
What is the value of the popcorn made in one hour?

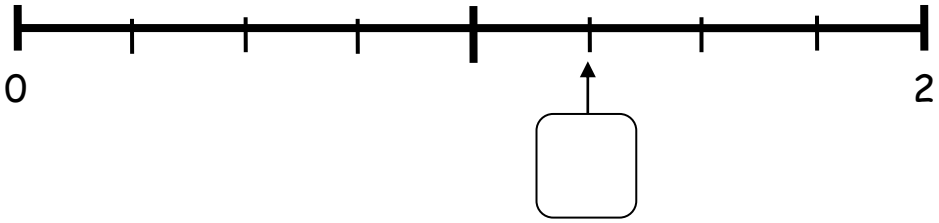
☐

9. Find the answer.

$7 \times 3\,400 =$ ☐

10. List the factors for 20. ☐

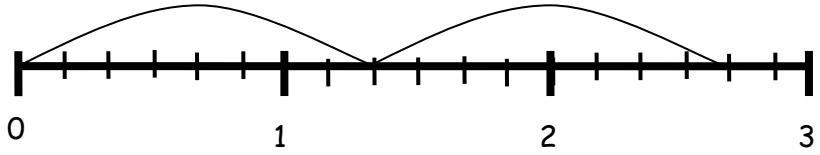
11. What is the fraction at the arrowed point on the number line?



☐

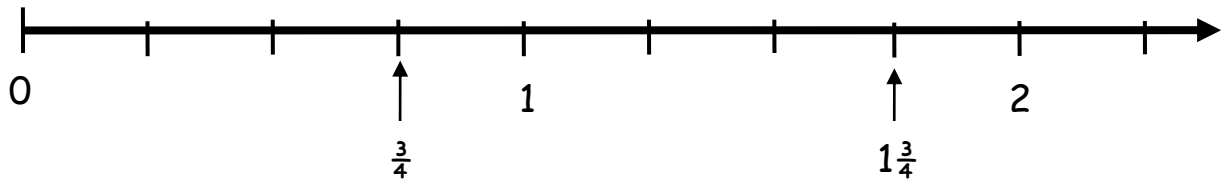
12. Find the answer.

$1\frac{2}{6} + 1\frac{2}{6} =$ ☐



13. What is the difference between 1 and $\frac{7}{10}$? ☐

14. What is the difference between the two arrowed points on the number line? ☐



15. Write the fraction as a decimal. $\frac{10}{100}$ ☐

16. Tick the correct answer to

$79.5 \div 100 =$ 7.95 ☐ 7.095 ☐ 0.795 ☐

17. Tick the largest number. 0.019 ☐ 0.09 ☐ 0.1 ☐

18. Gail has saved 10% of the money she needs for a new guitar.
So far he has saved $70.
What is the cost of the new guitar? ☐

19. Complete the rule for this sequence of number pairs.

m	9	19	29	39	49
n	12	22	32	42	52

n = m

20. Solve the equation. $12 \div (4 + 2) \div 2 - 1 =$ ☐

21. How many *whole numbers* (include 0) will make this statement true? $0 + n < 6$ ☐

22. $45 will buy 5 tickets to the show.
How much would it cost for 6 tickets? ☐

23. Which metric unit would you use the measure the capacity of a bucket?

kilograms ☐ square metres ☐ litres ☐

24. Which metric symbol would you use in measuring the volume of a 10 cm cube?

m^3 ☐ mL ☐ cm^3 ☐

25. Which unit of measure would you see on a tub of yoghurt?

g^2 ☐ g ☐ kg ☐

26. Which unit of measure would you use to find an approximate measure of the perimeter of your classroom?

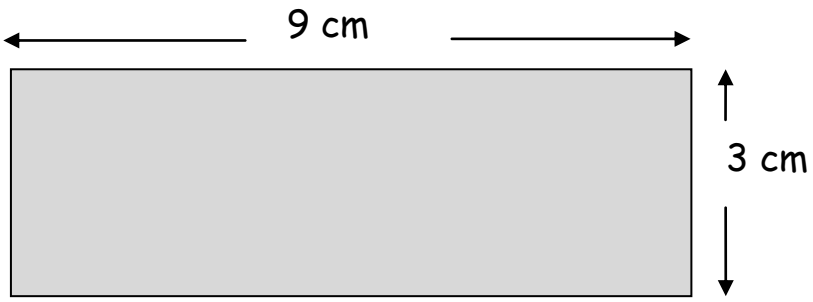
cm ☐ km ☐ m ☐

27. What is the width of a rectangle that has an area of 100 cm^2 and a length of 20 cm?

☐ cm

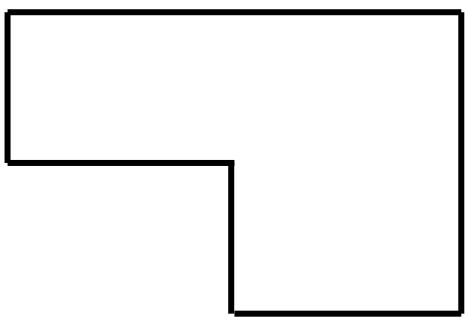
28. What is the area of the rectangle?

☐ cm^2



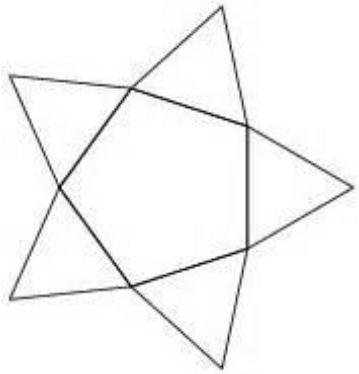
29. Write the perimeter of the shape to the nearest centimetre.

☐ cm

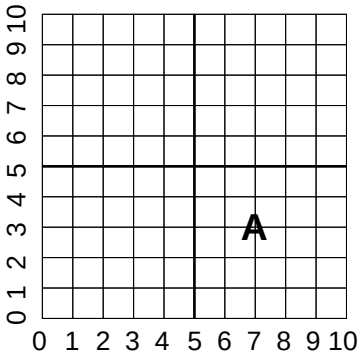


30. My train timetable uses 24 hour time. The timetable shows the next train I can catch to town is at 13:20. The time on my 12 hour watch currently shows 11:30 am. How long do I have to wait for the train?

31. Is the 3D model pictured the net for a pyramid or a prism?



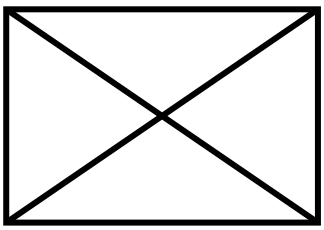
32. Describe the point location for **A**.



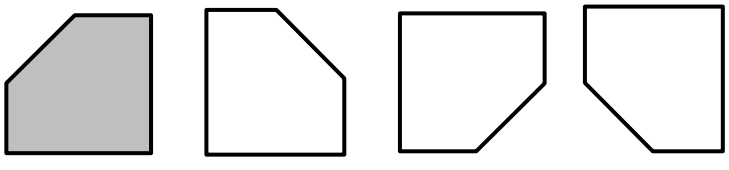
33. Is this drawing traversable? Tick your answer.

Traversable ☐

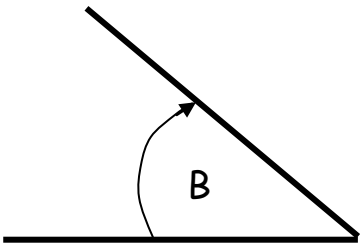
Not traversable ☐



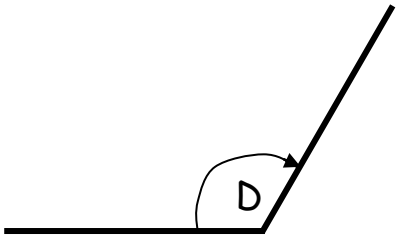
34. Tick the white shape that shows grey shape after it has been flipped horizontally and then flipped vertically.



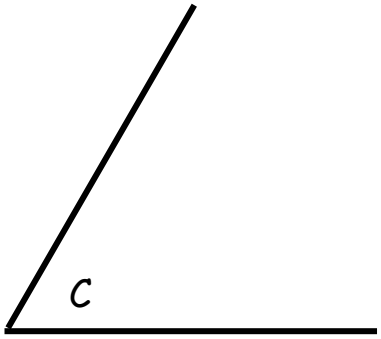
35. Angle B = 45^0.
How many more degrees of turn are required for angle B to become a right angle?



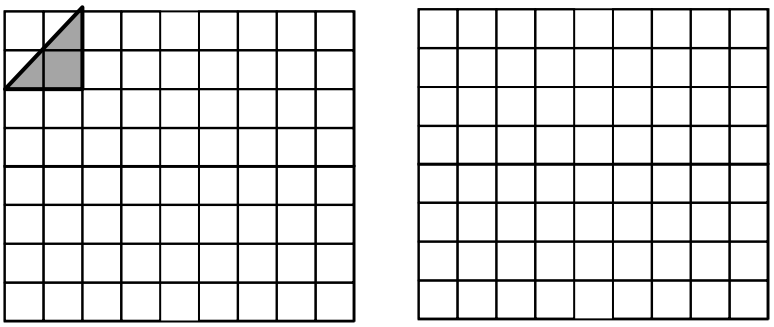
36. Angle D = 120^0.
How many more degrees of turn are required for angle D to become a straight line?



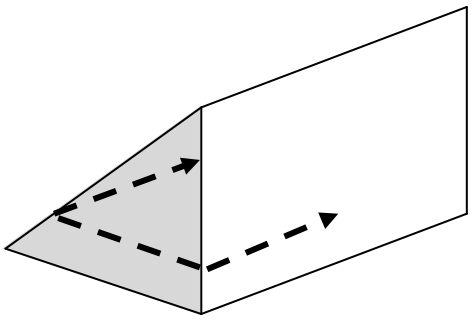
37. What is the angle at C?
Use your protractor.



38. Use the second grid to enlarge the triangle by a scale factor of 4:1



39. If you slice the bottom off the model in the direction of the arrows you will make two new matching faces.
What is the shape of the new faces?



40. 1 Ace, 1 King, 1 Queen, 2 Jack cards are placed face down on a desk.

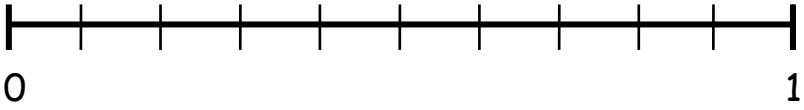
If you select one card, what are the chances of you turning over an Ace? Tick your selection.

$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{3}$	$\frac{3}{4}$

41. A bag contains 5 green counters, 2 red counters and 3 blue counters.

If you take 1 counter without looking, what is the probability that you could select a green counter from the bag?

Circle your selection.



42. There are 23 goldfish in a tank. 17 are gold and the rest are black. 18 of the goldfish are sold. Is it certain that a black goldfish was sold?

Yes ☐

No ☐

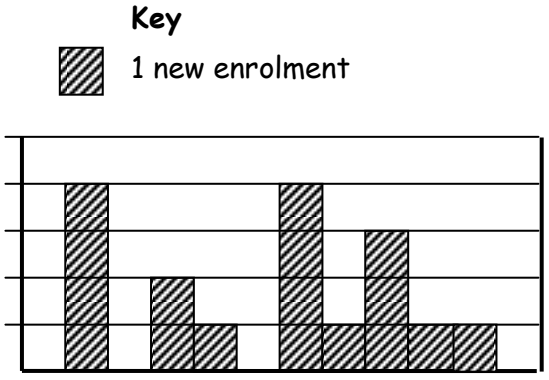
43. You collect data on your family history to find the names and birthdates of your parents, grandparents, great grandparents and great, great grandparents.

Tick the best method for recording the data.

Tree diagram	
Table	
Carroll diagram	

44. This graph shows the number of new children that came to our school each school month in 2014.

How many children were enrolled in total?



45. Scott recorded the hours of work he did from Monday to Friday. *His graph shows that he worked for 2 hours on Monday another 2 hours on Tuesday.*

How many hours did Scott work in total from Monday to Friday?