

NAME:
SCHOOL:

**ST GEORGE'S COLLEGE
WEYBRIDGE**

11+ ENTRANCE EXAMINATION

PRACTICE PAPER

MATHEMATICS

Read the following instructions carefully

- **There are 25 questions.** You should attempt all of them.
- **Write neatly and show all your working.** It may be possible to give you marks if your working makes sense, even if your final answer is wrong.
- **Put your answer in the space provided.** If you think you have finished check that you have answered all the questions.
- Work carefully and steadily. Move on to another question if you find yourself spending too long on a question.
- **You may not use a calculator or any other mathematical equipment.**

1. Complete the following

a) $1 \times 1 + 6 = \dots\dots\dots$

b) $0.6 \times 4 = \dots\dots\dots$

c) $84 \div 1000 = \dots\dots\dots$

2. Circle the number below which is closest to 2 :

1.9 1.998 2.08 1.99

3. Kate thinks of a number. She multiplies it by 3, takes away 2 and arrives at answer of 25. What was the number she originally thought of?

Answer: $\dots\dots\dots$

4. Write the following numbers as a fraction in their simplest form:

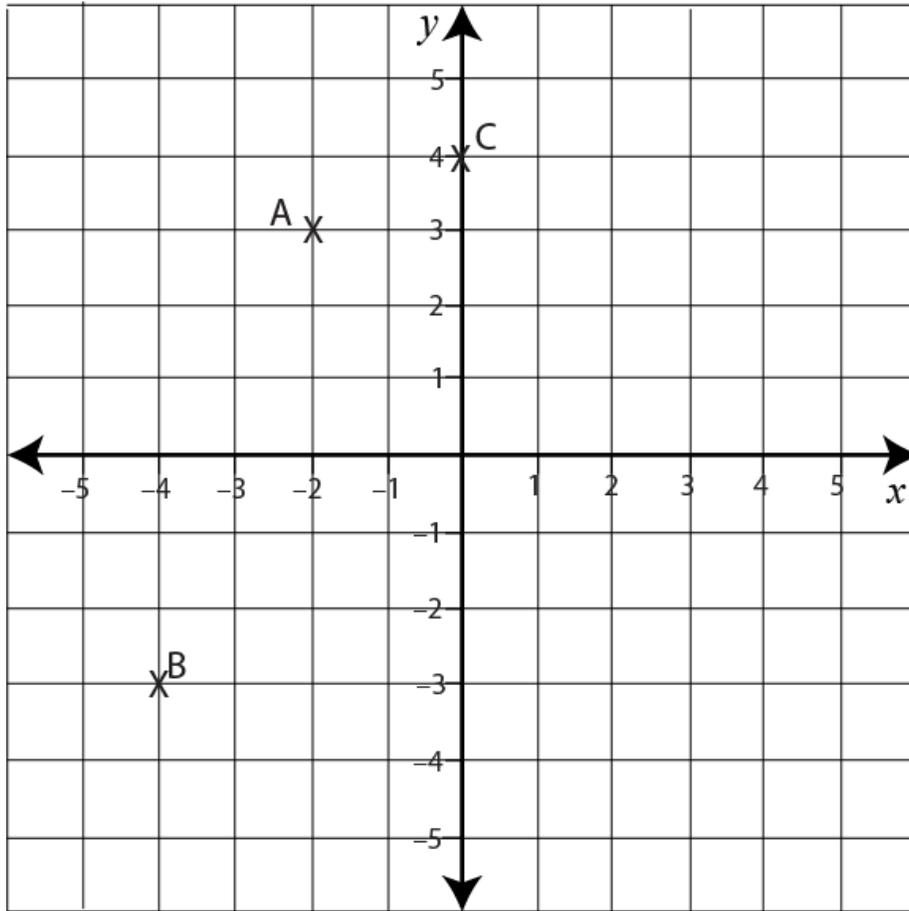
a) $0.4 = \dots\dots\dots$

b) $0.82 = \dots\dots\dots$

5. Calculate 316×49

Answer: $\dots\dots\dots$

6.



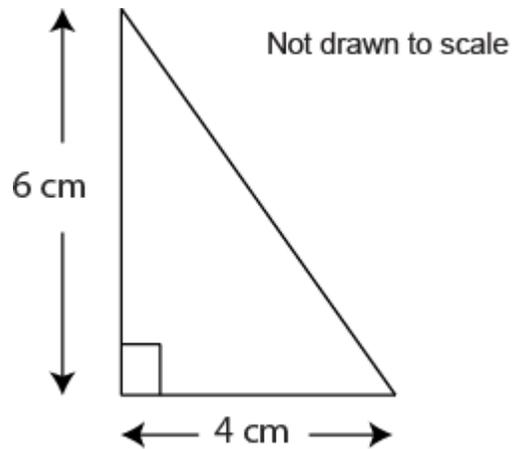
Write down the coordinates of the points A, B and C

A.....

B.....

C.....

7. Calculate the area of the triangle below, giving the correct units in your answer:



Answer:

8. The price of a coat is £64. In the sale it is reduced by 20%. How much is saved in the sale?

Answer:

9. Mint Chocolates cost £1.80 for 100 grams. Strawberry chocolates cost £1.42 for 100 grams. Peter buys 200 grams of mint chocolate and 150 grams of strawberry chocolate. How much does he pay altogether?

Answer:

10. Complete the table below, by stating if the statement is True or False

Statement	True or False ?
$100 > 5$	
$-6 < 10$	
$-12 > -3$	
$\frac{2}{3} < \frac{5}{9}$	

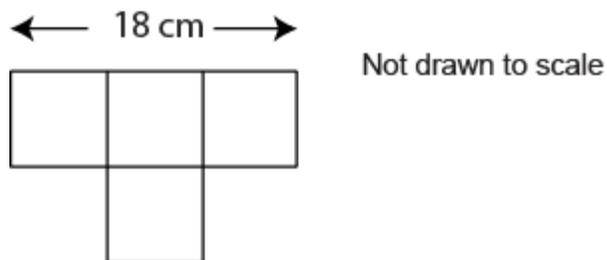
11. Write a number which is bigger than 4.6 but smaller than $4\frac{2}{3}$

Answer:

12. Complete the boxes below to make the sum correct:

$$\begin{array}{|c|c|c|} \hline 3 & & 2 \\ \hline \end{array} + \begin{array}{|c|c|c|} \hline 4 & 5 & \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline & 3 & 5 \\ \hline \end{array}$$

13. The shape below is made from 4 identical squares



a) Calculate the perimeter of the shape

Answer:

b) Find the area of the shape

Answer:

14. Put brackets in the calculation below to make it correct:

$$4 + 16 \div 4 + 4 = 6$$

15. Complete the sentences below.

a) The number is half way between 10 and 14

b) The number is half way between -4 and 12

c) The number 7 is half way between and 28

16. If $1234 \times 56 = 69104$, what is?

a) $69104 \div 56 = \dots\dots\dots$

b) $1.234 \times 560 = \dots\dots\dots$

c) $2468 \times 2.8 = \dots\dots\dots$

17. Five cartons of *Awesome Apple Juice* are bought for £9.50

a) How much would 3 cartons of *Awesome Apple Juice* cost?

Answer:

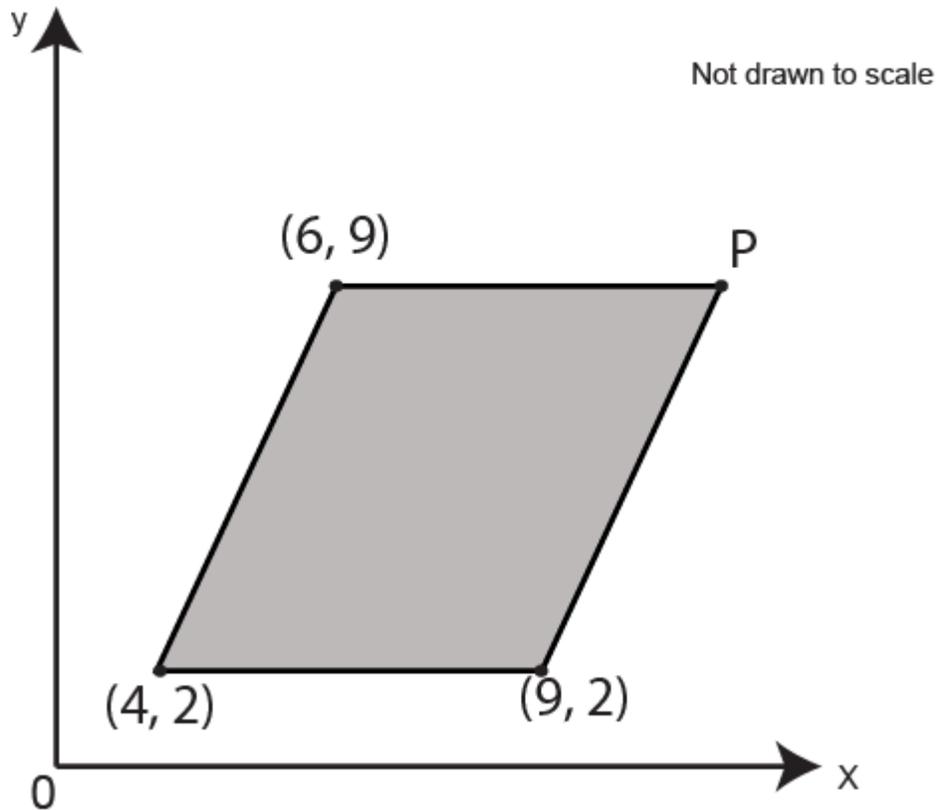
b) How many cartons can you buy with £28.50?

Answer:

18. Calculate $864 \div 16$

Answer:

19. The shape shown below is a parallelogram with vertices shown.



Write down the coordinates of P

P.....

20. Two different triangles have similar properties. They are both isosceles with a perimeter of 12cm. They both have a side of length 5cm

What are the lengths of the other two sides for each triangle?

Triangle 1 and

Triangle 2 and

21. The rectangle below is twice as long as it is wide. It's perimeter is 27cm.



Not drawn to scale

What is the area of the rectangle?

Answer:

22 a) Three quarters of a number is 48. What is the number?

Answer:

b) Write in the missing number below

$$50 \div \square = 2.5$$

23. The line below shows the first 5 square numbers

1 4 9 16 25

The sum of the first 20 square numbers is 2870. Work out the sum of the first 21 square numbers?

Answer:

24.

Powers of 3	Value
3^1	3
3^2	9
3^3	27
3^4	81
3^5	243
3^6	729
3^7	2187
3^8	6561

Use the above table to work out the following

a) $3^3 \times 3^4 = \dots\dots\dots$

b) $3^6 \times 9 = \dots\dots\dots$

c) $9^4 \div 3 = \dots\dots\dots$

25. In music a demisemiquaver is half of a half of a half of a crotchet, and there are four crotchets in a semibreve. How many demisemiquavers are there in a semibreve?

You must show your workings clearly, a guess will result in no marks.

Answer:

END OF TEST

Now check your work carefully.