| 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 = $ ....

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

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

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: ....

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

    a) $0.4 = $ …………………..

    b) $0.82 = $ ………………….

5. Calculate 316×49

                   Answer: ……………………

6.
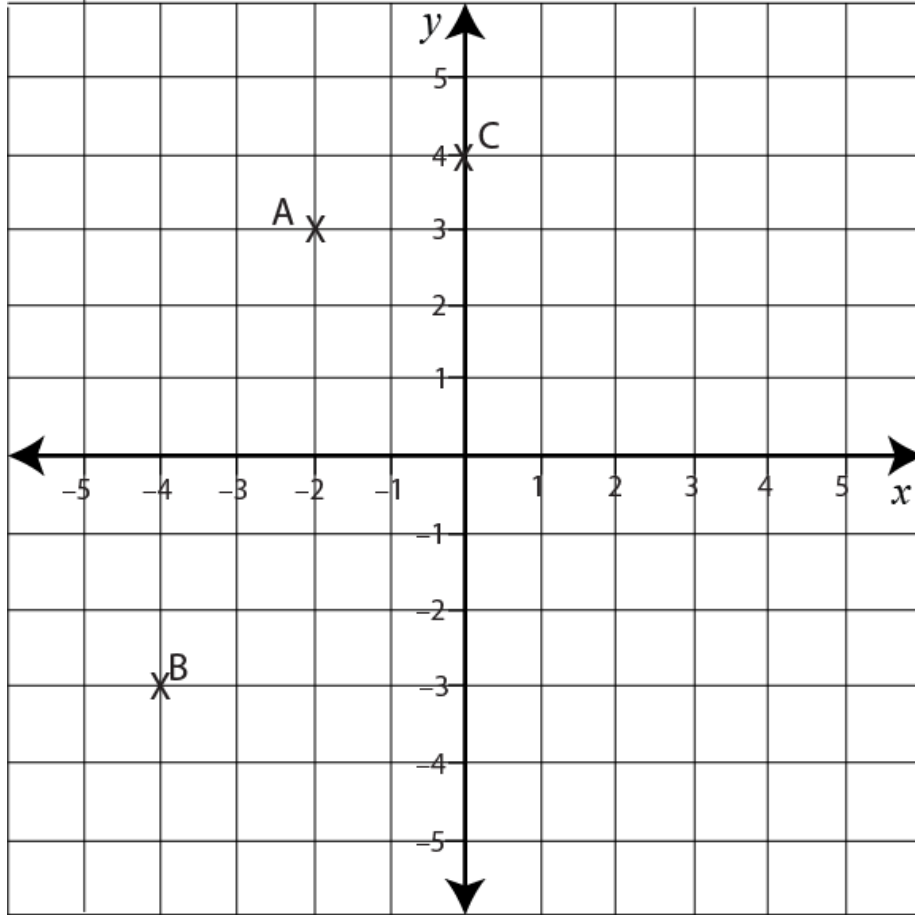
Write down the coordinates of the points A, B and C

A...........................

B...........................

C...........................

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

6 cm

4 cm

Not drawn to scale
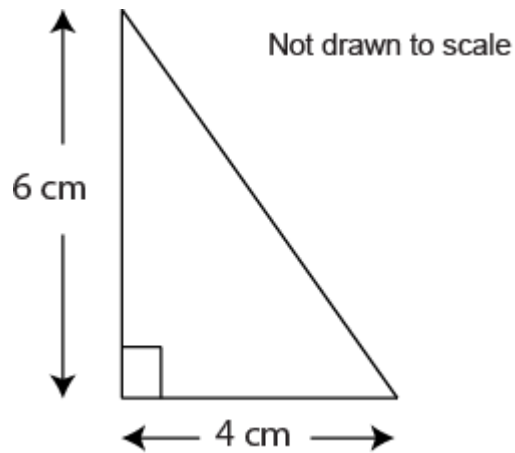
Answer: …………………………

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

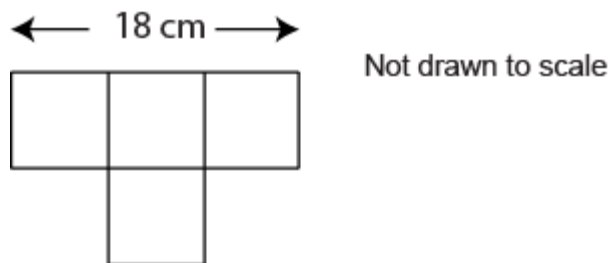| Statement	True or False ?
$100 > 5$	
$-6 < 10$	
$-12 > -3$	
$\dfrac{2}{3} < \dfrac{5}{9}$	

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

Answer: …………………….

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

$$\boxed{3}\;\boxed{}\;\boxed{2} + \boxed{4}\;\boxed{5}\;\boxed{} = \boxed{}\;\boxed{3}\;\boxed{5}$$

13. The shape below is made from 4 identical squares

←— 18 cm —→

Not drawn to scale

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) $69104 \div 56$ = ...

    b) 1.234×560 = ...

    c) 2468×2.8 = ...

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

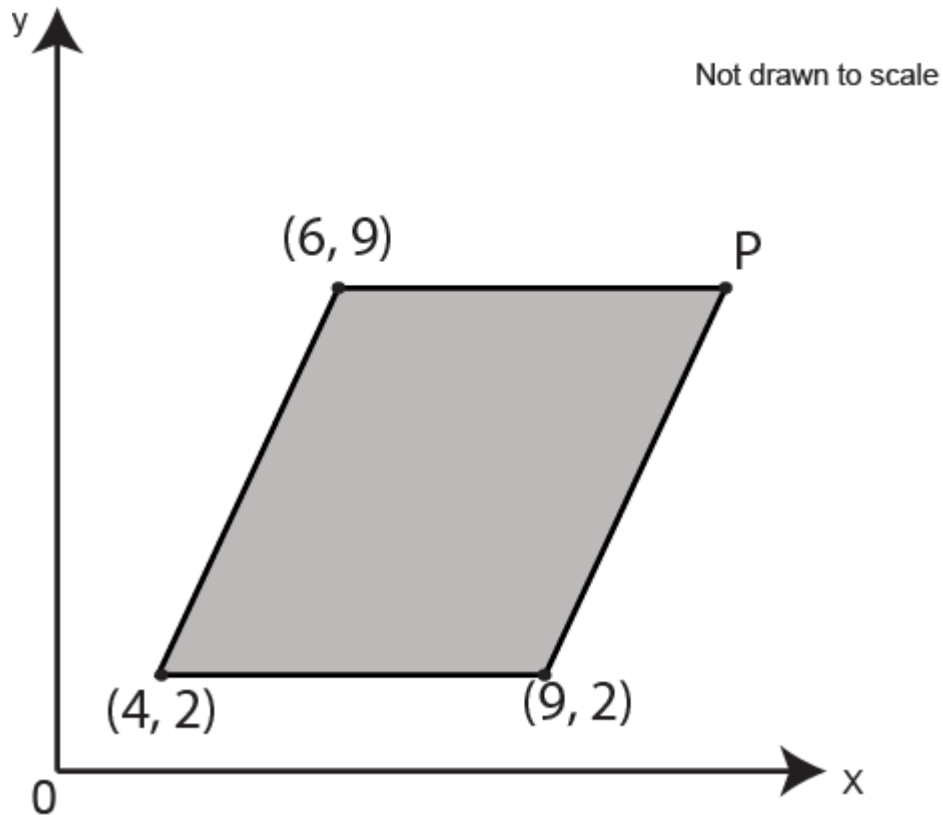a)   How much would 3 cartons of *Awesome Apple Juice* cost?

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.

Not drawn to scale
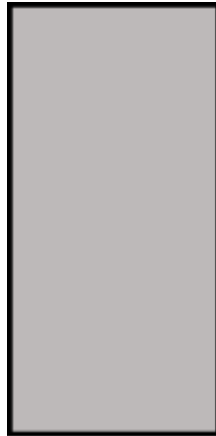
Write down the coordinates of P

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

$$50 \div \boxed{} = 2.5$$

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 = $ ....

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

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

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.