YEAR 7 ENTRY

PRACTICE PAPER - MATHEMATICS

Time allowed: 60 minutes

Instructions to candidates:

- Answer as many questions as you can.
- Do not spend too long on any one question.
- Show **all** of your working. You may get marks for it.
- Write all your answers in the spaces provided.
- You may **not** use a calculator.

1.   Calculate 574 + 297

Answer: …………………………..

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2.   Calculate 583 – 135

Answer: …………………………..

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3.   I run 12 miles each day for 2 weeks. How far do I run in total?

Answer: …………………………..

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4.   It is 413 miles from London to Glasgow.
     My electric car can travel 193miles on a full charge.
     I set out from London with a full charge. How many miles will I still need to travel when the charge runs out?

Answer: …………………………..

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5.   Calculate 58 x 7.

Answer: …………………………..

6.   Calculate 57 ÷ 4

Answer: …………………………..

7.   I buy 6 packs of pencils. Each pack has 28 pencils in. How many pencils do I buy altogether?

Answer: …………………………..

8.   Rulers come in packs of 8. I need 104 rulers. How many packs do I need to buy?

Answer: …………………………..

9.   Ice-Pops cost 32p each.

   (a)   How many Ice-Pops can be bought for £5.00?

                                                   Answer: …………………………..
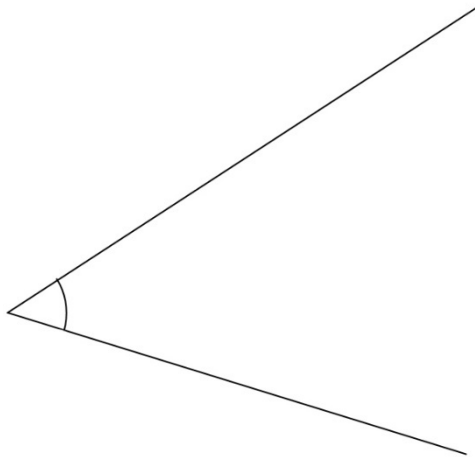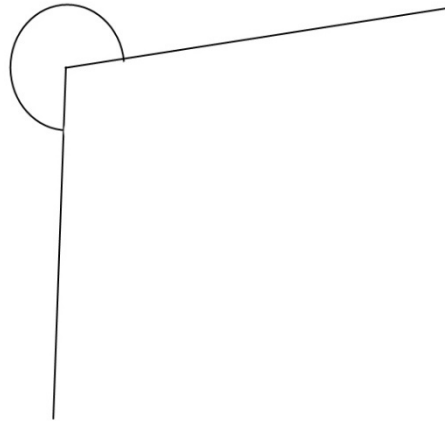
   (b)   How much change will there be?

                                                   Answer: …………………………..

10.
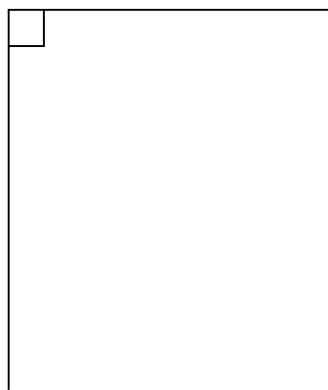
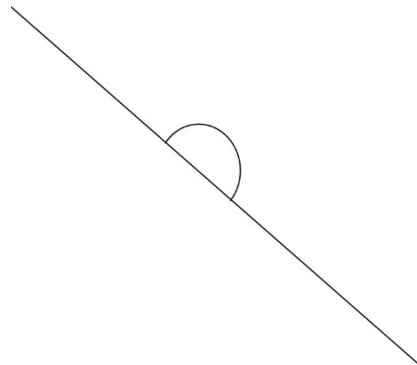In the following diagrams, say whether the marked angles are acute, straight, reflex, right angles or obtuse.

Type of angle: ……………   Type of angle: ……………

Type of angle: ……………   Type of angle: ……………

11.   Write the Number "twelve thousand and forty-three" in digits

Answer: …………………………..

12.   A cake shop sells 7 times as many chocolate doughnuts as jam doughnuts. 40 doughnuts are sold in **total**. How many chocolate doughnuts are sold?

Answer: …………………………..

13.   A length of rope is 3m long. It is cut into 4 unequal lengths. Three of the pieces are 14cm, 134.5cm and 73cm. How long is the fourth piece?

Answer: …………………………cm

14.   Put the following numbers in to ascending order (smallest to largest).

1.6	**1.63**	**1.603**	**1.625**	**1.502**	**1.06**

Answer: …………………………………………………………………………..
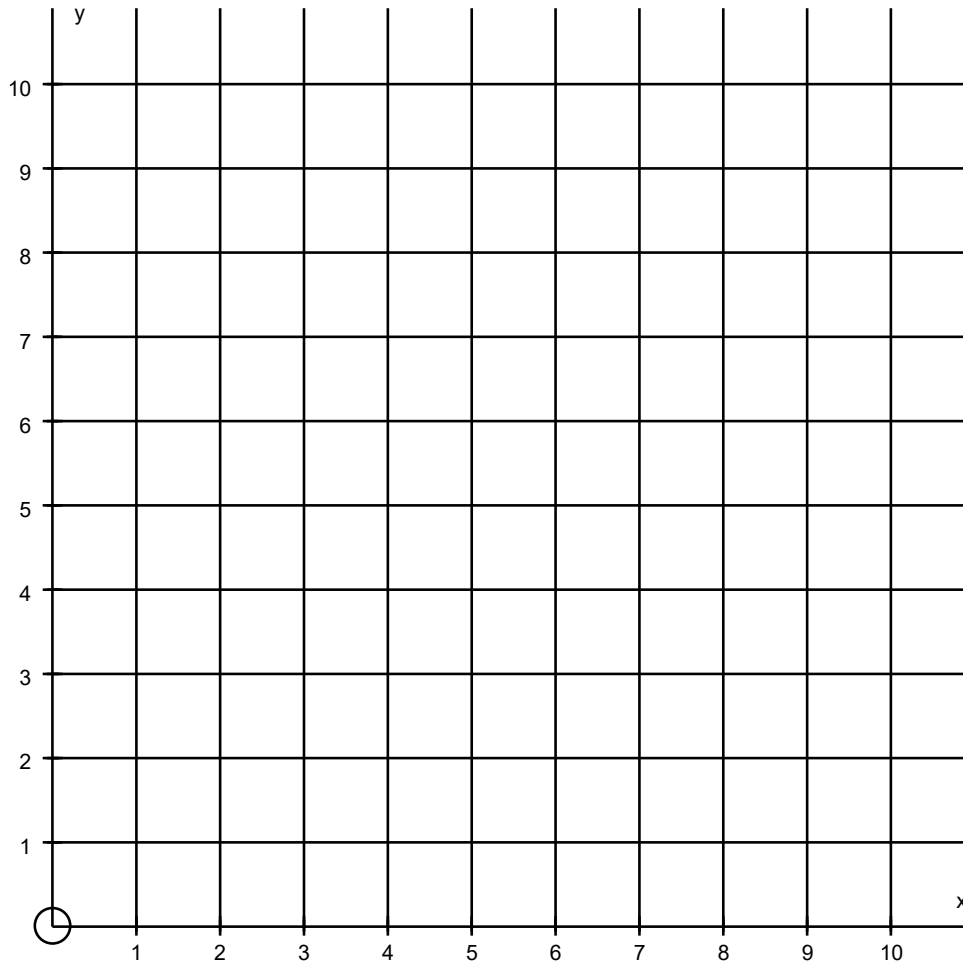
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15.

(a)   Plot the following points on the grid below
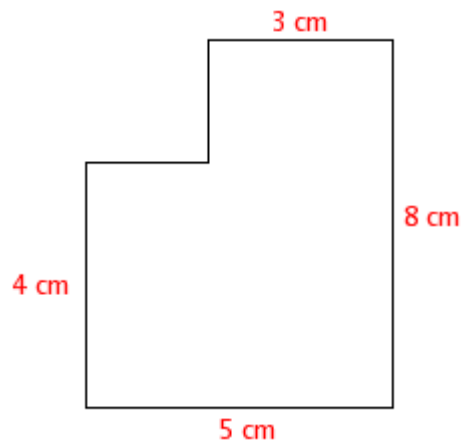
(2, 3)   (3, 0)   (6, 1)

(b)   Join the points together

(c)   What is the name for the shape you have drawn?

Answer: ………………………..

16. Find the perimeter and area of the shape below. The diagram has **not** been drawn to scale.

3 cm

8 cm

4 cm

5 cm

Perimeter: ………………………………

Area: …………………………..

17. Fill in the missing numbers to make each equation correct.
     (the first has been done for you as an example)

     e.g.   46 + 32 = 24 + ... *54*

     a.   78 + 26 = 52 + ...

     b.   75 − 38 = 52 - ....

     c.   90 x 6 = 9 x ....

     d.   4200 ÷ 70 = 420 ÷ ....

18.   From the table select any numbers which satisfy the following

1	2	3	8	9
10	25	26	27	

You may use a number to answer more than 1 question

a) Square Number(s)   ……………………………………………………

b) Factor(s) of 24   ……………………………………………………

c) Prime Number(s)   ……………………………………………………

d) Cube Number(s)   ……………………………………………………

e) Multiple(s) of 3   ……………………………………………………

19.   Match the equivalent fractions – the first has been done for you

$\dfrac{2}{6}$ • ⟶ • $\dfrac{1}{3}$

$\dfrac{1}{2}$ •   • $\dfrac{12}{21}$

$\dfrac{3}{4}$ •   • $\dfrac{6}{10}$

$\dfrac{3}{5}$ •   • $\dfrac{6}{16}$

$\dfrac{2}{3}$ •   • $\dfrac{20}{45}$

$\dfrac{4}{7}$ •   • $\dfrac{10}{15}$

$\dfrac{3}{8}$ •   • $\dfrac{6}{12}$

$\dfrac{4}{9}$ •   • $\dfrac{18}{24}$

20.   A game uses a "spinner" to decide how many spaces to move. You spin the arrow and move
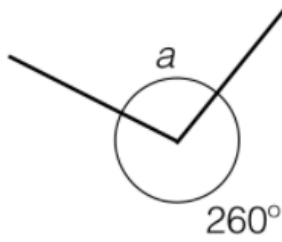   the number of spaces that that arrow points to.
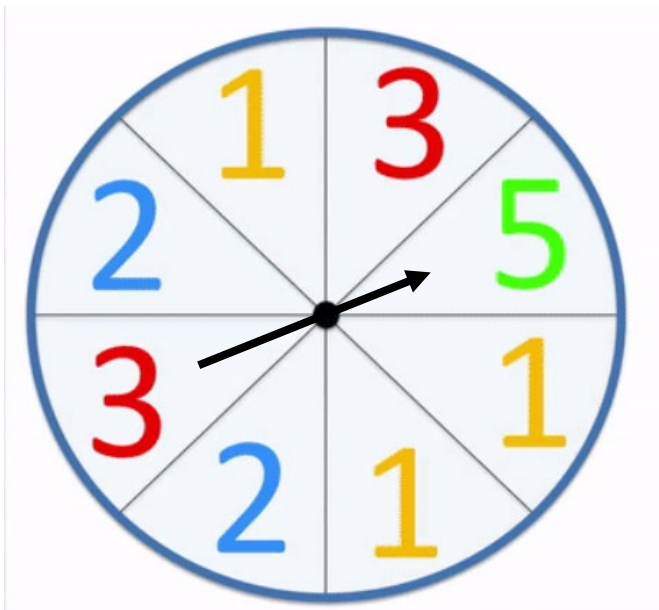
What is the probability of spinning a 1?   ………………………………….

What is the probability of spinning a 3? ………………………………….
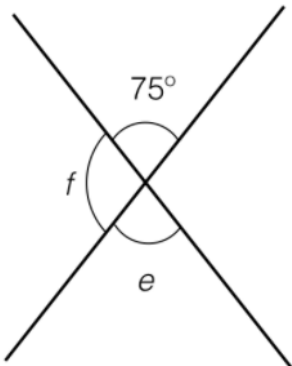
What is the probability of spinning a 6? ………………………………….

21. Calculate the size of each of the lettered angles. The diagrams are **not** drawn to scale. (Do not use a protractor)
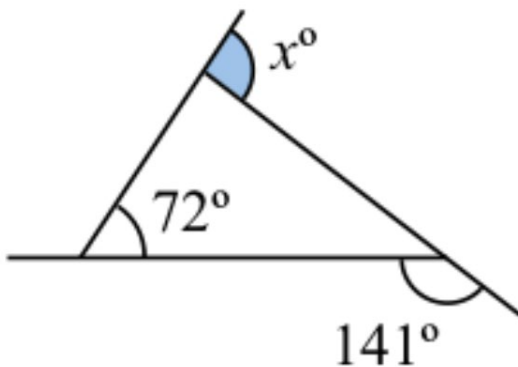
a

260°

a = ……………………………………

b

45°

b = ………………………………………..

75°

f

e

e = …………………………………………

f = …………………………………………

x^o

72°

141°

x = ………………………………

22.

    (a)   Round 3530 to the nearest 1000

                                            Answer: …………………………..

    (b)   Round 4630 to the nearest 100

                                            Answer: …………………………..

    (c)   Round 1994 to the nearest 10

                                            Answer: …………………………..

    (d)   Round 17.612 to the nearest 1

                                            Answer: …………………………..

END OF EXAMINATION