KING'S COLLEGE JUNIOR SCHOOL

WIMBLEDON

SPECIMEN PAPER

GROUP B

MATHEMATICS

Time Allowed: 45 minutes

Name: _____

Try to answer as many questions as you can.

If you cannot do a question, leave it and move onto the next question.

1) Write the following in figures:

a) Three thousand, one hundred and two: _____

b) Seven thousand and eight: _____

2) Put the following symbols = (equal to), > (greater than), < (less than) between these numbers and fractions.

a) 4352 ☐ 4532 b) 9098 ☐ 9089

c) ½ ☐ ⅓ d) ⅓ ☐ ⅕

3) What is the value of the underlined digit in the following:

a) 20<u>9</u>6: _____

b) 3<u>1</u>09: _____

4) Put these numbers in order of size from the smallest to the largest.

3210	2301	3102	3012	2130	2310
____	____	____	____	____	____

In questions 5 to 10 work out the answers and write your answers on the line.

You can show your working, on the right hand side, if you wish.

5) 78 x 2 = _____

6) 210 ÷ 10 = _____

7) 45 ÷ _____ = 9

8) _____ – 17 = 35

9) 37 + 8 = 52 – _____

10) 14 + _____ + 13 = 45

11) One morning there were 664 children on a beach. 385 of them went home for lunch. How many children stayed on the beach?

_____

12) John has £446, Sarah has £263 more than him. How much does Sarah have?

_____

13) Fill in the missing digits in the following sums:

a)
$$\begin{array}{r} 3 \\ 5 \\ +\ \ 9 \\ \hline 1\,\square \end{array}$$

b)
$$\begin{array}{r} 4\ 5 \\ -\ 1\,\square \\ \hline 2\ 7 \end{array}$$

c)
$$\begin{array}{r} 1\ 5\ 6 \\ +\ 2\ 6\ 7 \\ \hline \square\ 2\ 3 \end{array}$$

d)
$$\begin{array}{r} 3\ 0\ 4 \\ -\ 1\ 7\ 8 \\ \hline 1\,\square\ 6 \end{array}$$

14) In each row, work out what comes next and write it on the line.

a) 3 , 7 , 11 , 15 , _____

b) 49 , 41 , 33 , 25 , _____

c) 2 , 4 , 8 , 16 , _____

d) 4 , 5 , 7 , 10 , _____

e) 5.30 p.m. , 5.35.p.m , 5.40 p.m , 5.45 p.m , _____

15) Eggs are packed in boxes of 6. How many boxes are needed to pack 54 eggs?

_____

16) Apples cost 15 pence each. How much would 8 apples cost?

_____

17) For each row, work out what is missing and fill in the box.

a) 9 , 18 , 27 , ☐ , 45 , 54

b) 80 , 68 , 56 , ☐ , 32 , 20

c) 0 + 7 , ☐ , 2 + 5 , 3 + 4 , 4 + 3 , 5 + 2

18) How many whole apples would twenty-four quarter apples make?

_____

19) James has 36 sweets. He gives ¼ of them to his brother.
How many sweets does he have left?

_____

20) Use two of these numbers below each time to make an answer of 24.
(You may use a number more than once).

2 48 21 8 32 3

a) _____ + _____ = 24

b) _____ – _____ = 24

c) _____ x _____ = 24

d) _____ ÷ _____ = 24

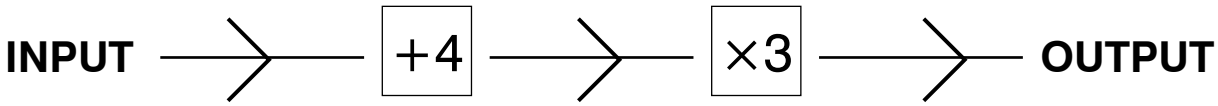
21) It takes Rajiv 45 minutes to travel to school. What time does he have to leave in the morning to arrive at school at ten minutes to nine?

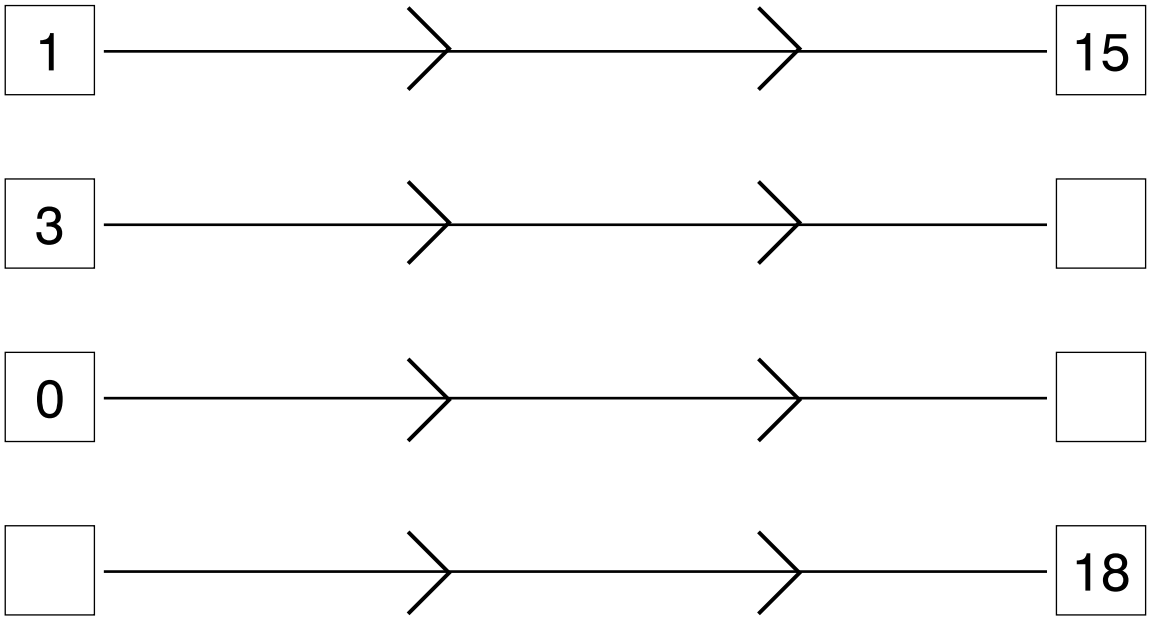
_____

22) Sam drives 46 kilometres to work. David drives half the distance.
How much further does Sam have to drive to work than David?

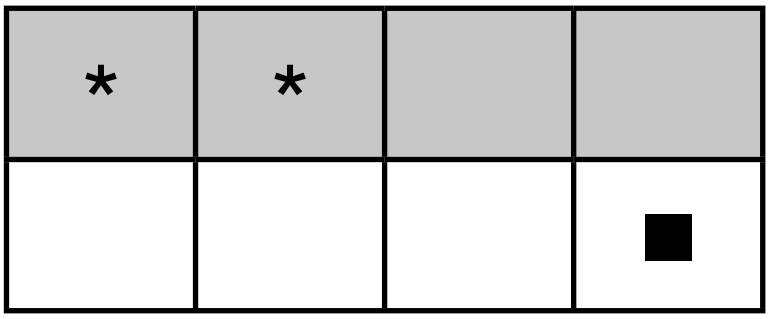
_____

23) This function machine adds four and then multiplies by 3.
Fill in the missing inputs and outputs:





24) Look carefully at this pattern



What fraction of this shape is grey? _____

What fraction of this shape has a star in it? _____

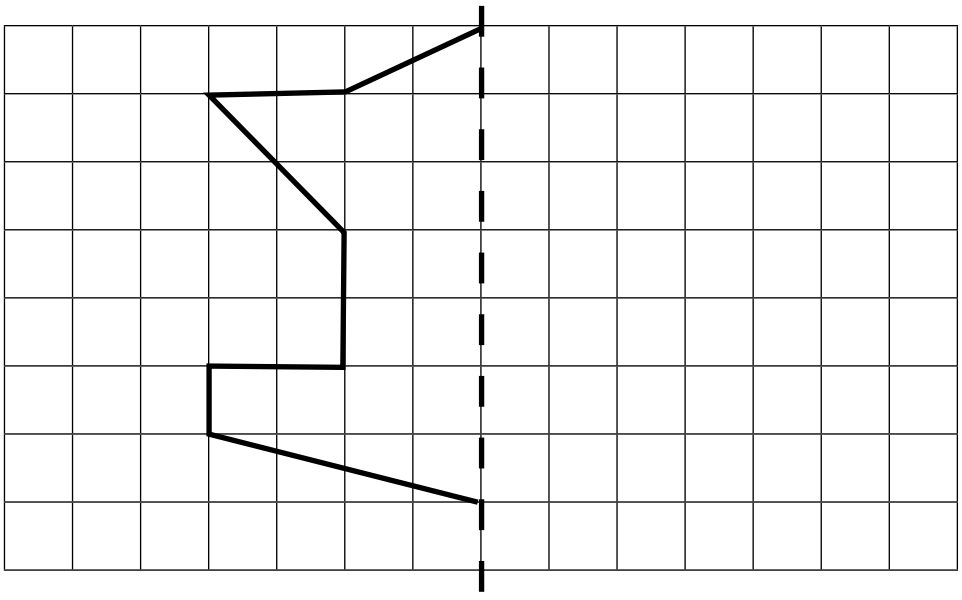
What fraction of this shape has a square in it? _____

What fraction of this shape is white and empty? _____

25) Which five coins make 74 pence?

_____ , _____ , _____ , _____ , _____

26) On the grid below draw the mirror image of this shape.

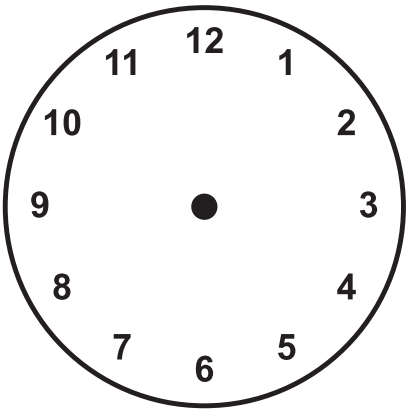


mirror line

27) It takes me ten minutes to paint a picture.
How many pictures could I paint in one hour and twenty minutes?

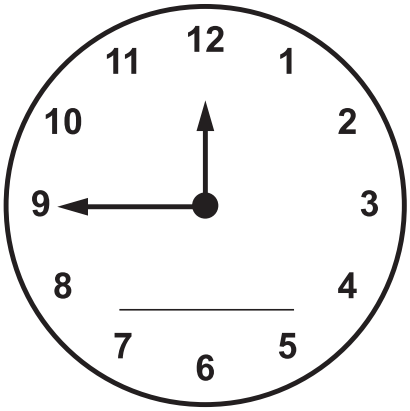
28) Sarah is six years younger than her sister, Elizabeth. Sarah is 15 years old.
How old is Elizabeth?

29) On the clock below, draw on the hands of the clock to show a time of 9:25am



9:25 am

30) Write, on the line, the digital time shown on the clock below.



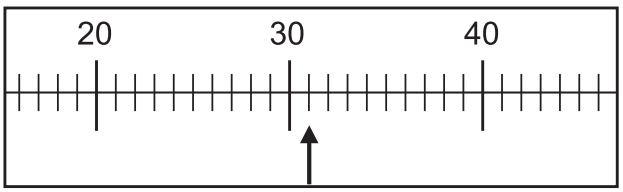
31) Make the following fractions equivalent (equal the same amount):

a) $\frac{1}{2} = \frac{\square}{10}$

b) $1 = \frac{6}{\square}$

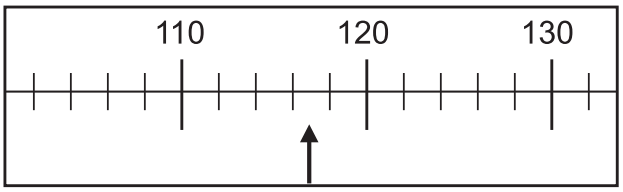
32) Here are the scales of three different measuring instruments.

a)



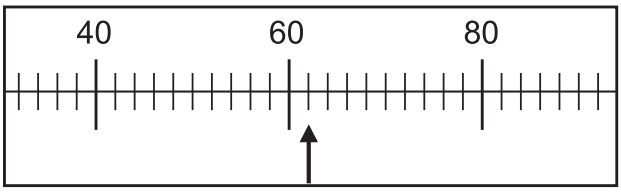
What is the reading indicated by the arrow? _____

b)



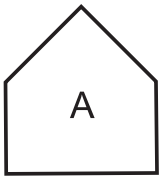
What is the reading indicated by the arrow? _____

c)



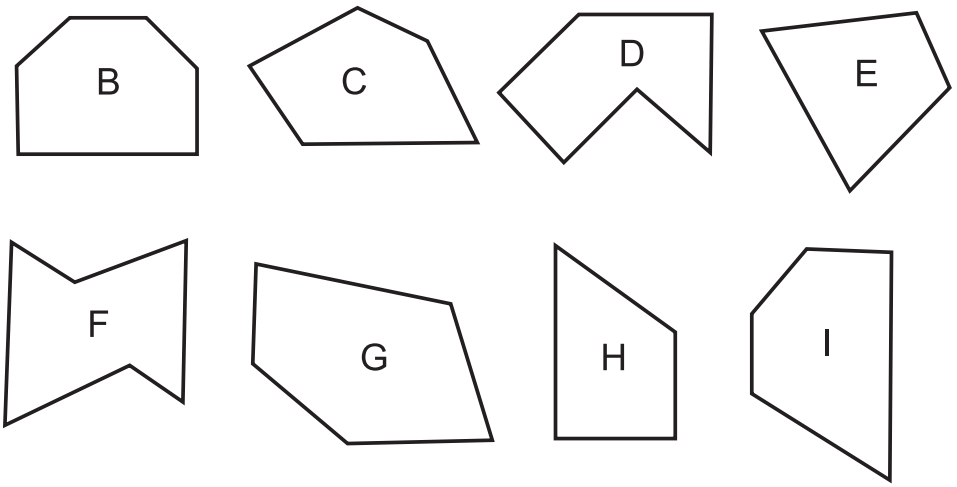
What is the reading indicated by the arrow? _____

33) This peg A matches the hole in the top right-hand corner of the card, although the peg has to be turned first.

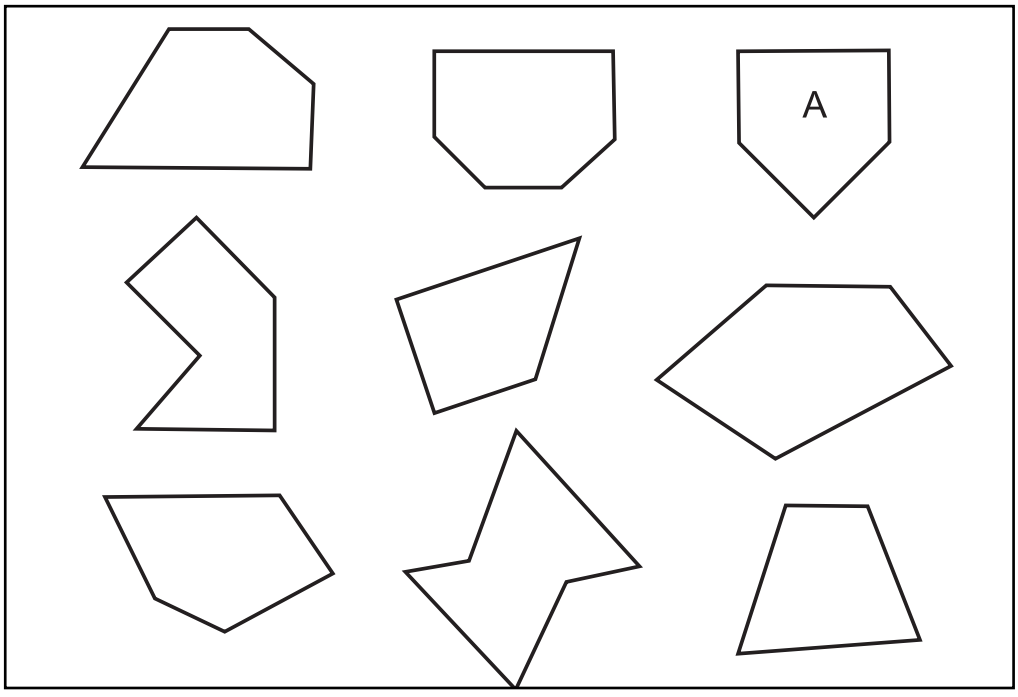


Write the correct letter in each of the other 8 holes, showing which of the pegs B to I fit in each hole.

THE PEGS



THE HOLES



34) The Jones family go to the cinema. The film starts at 5.40.
If the film lasts 1 hour 40 minutes, when does it end?

_____

35) 47 boys are going on a trip to the zoo by minibus.
If each minibus can carry 12 children, how many minibuses will be needed?

_____

36) Convert the following:

a) How many centimetres (cm) are there in 1½ metres? _____

b) How many metres (m) are there in 2¼ kilometres? _____

c) How many grams (g) are there in 5 kilograms? _____

37) During a 1 hour television programme there are two breaks of 3 minutes 30 seconds.
How long was the actual programme?

_____

38) Four different numbers, all in the 4 times-table, are put into order,
with the smallest number first and the largest number last.
The first number is 44. The last number is 56.
What are the other two numbers?

_____ and _____

NOW GO BACK AND CHECK ALL YOUR ANSWERS