Q1.

Circle the fraction that is **not** equivalent to $\frac{3}{8}$

$$\frac{6}{16} \qquad \frac{9}{24} \qquad \frac{12}{32} \qquad \frac{15}{35}$$

(Total 1 mark)

Q2.

Work out $2\frac{3}{4} \times 1\frac{7}{9}$

Give your answer as a mixed number.

....

....

....

....

....

....

Answer ....

(Total 3 marks)

Q3. The table shows information about 80 shirts in a shop.

	slim	tailored	regular	classic
grey	2	6	7	4
blue	8	5	9	5
purple	1	3	4	10
white	11	0	2	3

(a)   How many of the shirts are **white slim**?

Answer ....

(1)

(b)   What fraction of the 80 shirts are **purple classic**?
Give your answer in its simplest form.

....

....

Answer ....

(2)

(c)   How many of the shirts are **tailored**?

....

Answer ....

(1)

(d)   How many of the **blue** shirts are **slim or regular**?

....

Answer ....

(1)
(Total 5 marks)

Q4. Four friends **each** save £25 every month for one year.

They see this advert for a holiday.

HOLIDAY for 4 people

Usually £2600

Now HALF PRICE!

Is the total saved enough to buy this holiday? You **must** show your working.

....

....

....

....

....

....

....

....

....

(Total 5 marks)

Q5. $c = \dfrac{1}{2}$ $d = \dfrac{1}{3}$

Work out the value of cd

....

....

....

Answer ....

(Total 2 marks)

Q6. (a)   Simplify fully $4a - 3a + 2b - 8b$

....

....

....

Answer ....

(2)

(b)   Factorise $m2 - 2m$

Answer ....

(1)

(c)   Multiply out $5x(x - 3)$

....

Answer ....

(2)
(Total 5 marks)

Q7. Work out which distance is longer,

20% of 320 miles   or $\frac{1}{2}$ of 130 miles.

You **must** show your working.

....

....

....

....

....

....
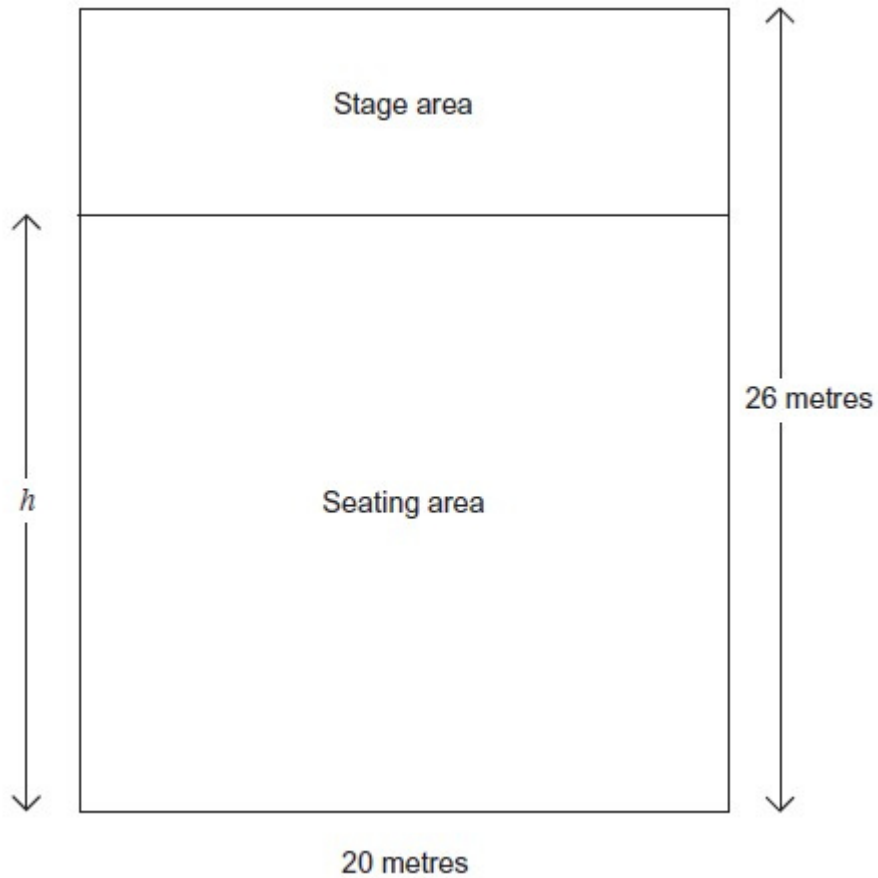
Answer ....

(Total 4 marks)

Q8. The diagram shows a plan of a rectangular school hall.

Not drawn accurately

(a)   The stage area is one-quarter of the area of the school hall.

Work out the length h

....

....

Answer ....metres

(3)

(b)   In the seating area

the maximum number of rows allowed is 13
the maximum number of seats allowed in a row is 16.

There are the same number of seats in each row.
Altogether there are 168 seats.
Work out the number of rows and the number of seats in each row.
You **must** show your working.

....

....

....

....

....

....

....

....

....

....

Number of rows ....

Number of seats in each row ....

(3)
(Total 6 marks)

Q9. One week Ruben was paid £210
He spends £90

He saves $\dfrac{1}{4}$ of the rest.

How   much   money   did   he   save?

....

....

....

....

....

Answer £ ....

(Total 3 marks)

Q10.
(a)   Work out   11% of 1400

....

....

....

....

Answer ....

(2)

(b)   Work out $\frac{4}{5}$ of 295

....

....

....

....

Answer ....

(2)
(Total 4 marks)

Q11.
On a farm

one-fifth of the animals are goats
25% of the animals are sheep
the rest of the animals are cows.

What **fraction** of the animals on the farm are cows?
Give your answer in its simplest form.

....

....

....

....

....

....

....

Answer ....

(Total 4 marks)

Q12.

(a) Work out   1.56 ÷ 0.4

....

....

....

....

Answer ....

(2)

(b) Write down a **decimal** that is more than $\dfrac{7}{11}$ and less than $\dfrac{7}{9}$

....

....

....

....

Answer ....

(2)

(c) Write down a **fraction** that is more than 41% and less than 42%

....

....

....

....

Answer ....

(2)
(Total 6 marks)