GCSE Mathematics Linear 1 4370-03

All Candidates' performance across questions

| Question Title | N | Mean | S D | Max Mark | F F | Attempt \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 19353 | 7.4 | 2.3 | 10 | 73.9 | 100 |
| 2 | 19310 | 2.9 | 1.6 | 6 | 49.1 | 99.7 |
| 3 | 18733 | 2.8 | 2 | 6 | 46.8 | 96.8 |
| 4 | 19254 | 2.5 | 0.8 | 3 | 82.4 | 99.5 |
| 5 | 19301 | 3.3 | 1.4 | 6 | 54.5 | 99.7 |
| 6 | 18782 | 2.1 | 2 | 6 | 35.8 | 97 |
| 7 | 19168 | 2.5 | 0.8 | 3 | 84.8 | 99 |
| 8 | 18434 | 2.5 | 1.5 | 4 | 63.2 | 95.2 |
| 9 | 16660 | 1.1 | 1.3 | 4 | 27.4 | 86 |
| 10 | 18987 | 2.9 | 1.4 | 6 | 49.1 | 98.1 |
| 11 | 19256 | 2.4 | 1.3 | 4 | 59.9 | 99.5 |
| 12 | 16204 | 0.1 | 0.5 | 2 | 7.1 | 83.7 |
| 13 | 18717 | 3.5 | 1.4 | 6 | 57.8 | 96.7 |
| 14 | 18486 | 3 | 1.9 | 5 | 60.7 | 95.5 |
| 15 | 18899 | 3.1 | 1.7 | 6 | 51.3 | 97.6 |
| 16 | 16257 | 0.7 | 1.2 | 4 | 16.9 | 84 |
| 17 | 17325 | 0.7 | 1.1 | 4 | 16.9 | 89.5 |
| 18 | 16929 | 1.6 | 1.5 | 4 | 39.1 | 87.4 |
| 19 | 17980 | 0.2 | 0.7 | 3 | 8.2 | 92.9 |
| 20 | 12406 | 0.2 | 0.5 | 3 | 5.8 | 64.1 |
| 21 | 11450 | 0.2 | 0.6 | 5 | 3.4 | 59.1 |

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3. You will be assessed on the quality of your written communication in this question.

A window cleaner takes 15 minutes to clean each window in a large building. He charges using the following formula:
payment $=£ 8 \times$ number of hours worked + call-out charge
Calculate the payment for cleaning 20 windows when the call-out charge is $£ 12$.
$\qquad$
3.

Calculate the payment for cleaning 20 windows when the cal-out charge is $£ 12$.
payment $=f 8 x$ number of hows worked $+k 12$.
we need to find out the number of hours Worn Red:

Ms is minutes $\times 2$, window


There is 50 minutes in anhour.

 He worked five hours. 60 180 240
300

$$
\begin{aligned}
\text { poyment } & =[8 \times 6+112 \\
& 18 \times 5=120 \\
& =540+12=152
\end{aligned}
$$ for cleaning do windows.

3. 

Calculate the payment for cleaning 20 windows when the cal-out charge is $£ 12$.
payment $=88 x$ number -of hows worned $+k 12$
We need to find out the number of hours
Worked: $\quad$ is is minutes $x$ as Windows



望思 He
180
20
300

$$
\begin{aligned}
\text { poyment } & =58 \times 5+112 \\
& E 8 \times 5=4 \times 0 \\
& =540+112=152
\end{aligned}
$$

He cecietes
He is payed 152 for cleaning do windows.
3.

Calculate the payment for cleaning 20 windows when the call-out charge is $£ 12$.
The window cleaner will work a total arg biol homes, became if wink fake nim jiyteen minuter to clean each of the twenty window The tatum payment jar cleaning twenty windows with a caur-onar charge of twelve pounds o equal to fifty two pounds total payment.
3.

Calculate the payment for cleaning 20 windows when the call-out charge is $£ 12$.
The window cleaner will work a tom tan arg pius hours, became is win fuse ain jiyteen minuter to clean each of the twenty window The tatum payment jor cleaning twenty windows with a saur-okan charge of twelve
 equal to fifty two pommels Aotwa payment.
6. Two rectangles, each 9 cm by 3 cm , and an overlapping rectangle, 8 cm by 3 cm , are placed so that they make the H shape shown in the diagram.


Diagram not drawn to scale
(a) Calculate the perimeter of the shape.
$\qquad$
$\qquad$
$\qquad$
(b) Calculate the area of the shape.

Write down the units of your answer.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

(b) Calculate the area of the shape.

Write down the units of your answer.

$$
\begin{array}{ll}
9 \times 3=27 & 27 \\
3 \times 2=6 & 27
\end{array}
$$


9. A rectangular tank has a length of 20 cm , a width of 15 cm and a height of 10 cm . Water is poured into the tank until it is half full. Calculate the volume of the water in litres.

Diagram not drawn to scale

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Diagram not drawn to scale

Length $x$ width $x$ Height
$20 \times 15 \times 10=3000 \mathrm{~cm}^{3}$
$3000 \mathrm{~cm}^{3}=30$ Litres $^{3}$
9. A rectangular tank has a length of 20 cm , a width of 15 cm and a height of 10 cm . Water is poured into the tank until it is half full. Calculate the volume of the water in litres.


Diagram not drawn to scale

## Hovinumexum

Length $x$ width $x$ Height
$20 \times 15 \times 10=3000 \mathrm{~cm}^{3}$

$3000 \mathrm{~cm}^{3}=30$ litres $^{3}$

16. The area of the trapezium is equal to the area of the right-angled triangle.


Diagrams not drawn to scale

Calculate the value of $x$.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
16.

| Calculate the value of $x$. |
| :---: |
| Area of |
| rrapericm $=6+10=16 \times 5=\frac{50}{2}=40 \mathrm{~cm}^{2}$ |
| $10 \times x=40 \mathrm{~cm}^{2}$ |
| $x=4$ |

16. 

| Calculate the value of $x$. |
| :---: |
| Area of |
| reapcziom |$=6+10=16 \times 5=\frac{50}{2}=40 \mathrm{~cm}^{2}$

$10 \times x=40 \mathrm{~cm}^{2}$
$x=4$
16.

16.

17. The pie charts show the proportion of boys to girls in class $A$ and class $B$.


Class A


There are more pupils in class $B$ than in class $A$.
There are 4 boys in class A.
There are $1 \frac{1}{2}$ times as many girls in class B than in class A.
How many boys are there in class B?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
17.

How manly buys ace there in class $B$ ?
4 dagan es $A$ and 12 girls in diss $A$ whiten woks a total of 16 in desc $A$

There ox 18 girls in dales $\beta$ $6+12=18$
So the , s 6 bays in class $B$
17.

How many boys ace there in class $B$ ?
4 day gin clos $A$ and 12 girls in dis A which woks o total of lb in doss $A$

There ox 18 girls in ales $B$

$$
6+12=18
$$

So there is 6 bags in class B
17.

How many boys are there in class $B$ ?
$\qquad$

$\qquad$
Answer: 9
17.

How many boys are there in class $B$ ?
$\qquad$
$\qquad$

$$
\text { Answer }=9
$$

