GCSE Mathematics Unit 2 4352-01

All Candidates' performance across questions


## GCSE Mathematics Unit 2 4352-01


6. (a) In a maths test, Zac scored $\frac{3}{5}$ of the maximum possible mark. Josh scored $62 \%$ and Lowri's mark was 0.58 of the maximum possible mark.

Write down which student scored the most marks and which student scored the least marks.
You must show all your working to support your answer.

Student with most marks $=$
Student with least marks =
6. (a) In a maths test, Zac scored $\frac{3}{5}$ of the maximum possible mark.

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Write down which student scored the most marks and which student scored the least marks.
You must show all your working to support your answer.
$\qquad$
$\square$ JoSh
Student with least marks $=$

$$
\mathrm{ZaC}
$$

$\square$
6. (a) In a maths test, Lac scored $\frac{3}{5}$ of the maximum possible mark. Josh scored $62 \%$ and Lowri's mark was 0.58 of the maximum possible mark.

Write down which student scored the most marks and which student scored the least marks.
You must show all your working to support your answer.

$$
\begin{array}{ll}
0.58-58 \% & \text { Josh got } \\
\text { Josh scored }-62 \% & \text { the best } \\
\frac{3}{5}-30 \% &
\end{array}
$$

Student with most marks $=$ JoSh
Student with least marks $=$ LaC

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

Mr and Mrs Morris and their children, Nia and Bryn, went to Addington Theme Park for a day out.

Mr and Mrs Morris planned to go on 6 rides each.
Nia and Bryn planned to go on 8 rides each.


|  | Adult price | Child price |
| :--- | :---: | :---: |
| One-day ticket <br> (includes all rides) | $£ 21.50$ | $£ 17.50$ |
| Individual ride ticket <br> (per person per ride) | $£ 2.50$ | $£ 2.50$ |

Mr and Mrs Morris bought tickets for themselves and for their children.
They spent as little money as possible.
How much money did it cost them altogether?
You must show all your working clearly.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Mr and Mrs Morris bought tickets for themselves and for their children.
They spent as little money as possible.
How much money did it cost them altogether?
You must show all your working clearly.
Ore day ticket

$$
\begin{aligned}
& 21.50 \times 2 \quad 43 \\
& 17.50 \times 2 \quad 35 \\
& =278.00
\end{aligned}
$$

Individual ride ticket

$$
2.50 \times 12=30.00
$$

$$
2.50 \times 16=40.00
$$

$$
=270: 00
$$

Answer: Altogether it cost them 170 and they paid for individual ride tickets.

Mr and Mrs Morris bought tickets for themselves and for their children.
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$$
2.50 \times 16=40.00
$$

$$
=270: 00
$$

Answer: Altogether it cost them 170 and they paid for individual ride tickets.

Mr and Mrs Morris bought tickets for themselves and for their children. They spent as little money as possible.
How much money did it cost them altogether? You must show all your working clearly.

If mr and Mrs marris bought the one-day ticket $f a r$ themselves and two children. Adult price is E21.SO. E21.SOX2=E43.00 for the adults. child price us $t 17.50$. $E 17.50 \times 2=E 3500$ for the children. So the family would of spent $€ 43.00+€ 300$ equals $\& 7800$ for the whole family. If the family spent the money on indlvidual ride trakets. Mr and mrs morris planned to go on 6 rides each. E. $250 \times 6$ equaus EIS.00 each therefort for both adults it would

```
costE1S.00\times2=E30.00. The children planned to go on
8rides each. Each nide costs a child E2.SO, E2.S0\times8 equals
E20.06 so for both Nia and Bryn it would cast E20.00
x2 = E40.00. All together the family would have to spend E40.00
+E30.00=E70.00. Mr and Mrs Morris spent as itfle
maney as possible so that would mean they bought individua)
ride trokets instead of a one-day ticket. A one-day ticket
for the whole family costs t78.00 whereas individual rides
for the whole family costs ET0.00.
```

Mr and Mrs Morris bought tickets for themselves and for their children. They spent as little money as possible.
How much money did it cost them altogether?
You must show all your working clearly.
If mr and Mrs maris bought the one-day ticket for themselves and two children. Adult price is $E 21.50 . E 21.50 \times 2=E 43.00$ for the adults. child price is $t 17.50, ~ t 17.50 \times 2=\epsilon 35.00$ for the children so the family would of spent $£ 43.00+\epsilon 350$ equals $E 78.00 \mathrm{fa}$ the whole family. If the family spent the money on indluidual ride trikets. Mr and mrs morris planned to go on 6 rides each. $\in 250 \times 6$ equals E15.00 each thereforl for both adults it would

$$
\begin{aligned}
& \text { coste } 15.00 \times 2=\epsilon 30.00 \text {. The children planned to go on } \\
& 8 \text { rides each. Each nide costs a child } \epsilon 2 \text { so. } \epsilon 2.50 \times 8 \text { equals } \\
& \epsilon 20.00 \text { so for both Nia and Bryn it would cast } \epsilon 20.00 \\
& \times 2=\epsilon 40.00 \text {. All together the family would have to spend } \epsilon 40.00 \\
& +\epsilon 30.00=\epsilon 70.00 \text {. Mr and mrs Morris spent as intfle } \\
& \text { maney as possible so that would mean they bought individual } \\
& \text { ride tracets instead of a one-day ticket. A one-day ticket } \\
& \text { for the whole family costs } \epsilon 78.00 \text { whereas individual rides } \\
& \text { for the whote family costs } \epsilon 70.00 \text {. }
\end{aligned}
$$

Mr and Mrs Morris bought tickets for themselves and for their children.
They spent as little money as possible.
How much money did it cost them altogether?
You must show all your working clearly.
8 rigefikets $8 \times 2.50=220.00$
one day ticket, $= \pm 17.5050$ mr and mrs Morris
would choice all, ticket for the children day

6 ride
ride
tickets $-6 \times 2.50=E 15.00$
one day ticket - $=\$ 21.50$ so Mr and Mrs
morris would chase ride tickets for (A) themselves.


Mr and Mrs Morris bought tickets for themselves and for their children.
They spent as little money as possible.
How much money did it cost them altogether?
You must show all your working clearly.
8 rigeckets $8 \times 2.50= \pm 20.00$
one day ticket. $= \pm 17.5050$ mr and mrs Morris
would choice all, ticket for the children
${ }^{6} \begin{aligned} & \text { ride } \\ & \text { tickets }\end{aligned}-6 \times 2.50=E 15.00$
one day ticket $\quad=\$ 21.50$ so Mr and Mrs
morris would chare ride tickets for (A) themselves.

8. Karim painted a fence.

On Monday, he painted $\frac{7}{10}$ of the fence.
On Tuesday, he painted another $\frac{1}{5}$ of the fence.
On Wednesday, he finished painting the fence.
What fraction of the fence did Karim paint on Wednesday?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
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What fraction of the fence did Karim paint on Wednesday?


Monday
tuesday

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$\qquad$
$\qquad$
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On Wednesday, he finished painting the fence.
What fraction of the fence did Karim paint on Wednesday?

$$
\frac{7}{10}=70 \%
$$

$1 / 5=20 \%$

$$
70+20=90
$$

wednesday he painted $10 \%$
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On Wednesday, he finished painting the fence.
What fraction of the fence did Karim paint on Wednesday?

$$
\begin{aligned}
& \frac{7}{10}=70 \% \quad 70+20=90 \\
& \frac{1}{5}=20 \% \quad \text { wednesday he painted } 10 \%
\end{aligned}
$$

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On Monday, he painted $\frac{7}{10}$ of the fence.
On Tuesday, he painted another $\frac{1}{5}$ of the fence.
On Wednesday, he finished painting the fence.
What fraction of the fence did Karim paint on Wednesday?
Monday - $\frac{7}{10}$
Tuesday $-\frac{1}{5}=\frac{2}{10}$
wednesday - $\frac{1}{10}$

$$
\frac{7}{10}+\frac{2}{10}=\frac{9}{10} \quad \frac{10}{10}-\frac{9}{10}=\frac{1}{10}
$$

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On Tuesday, he painted another $\frac{1}{5}$ of the fence.
On Wednesday, he finished painting the fence.
What fraction of the fence did Karim paint on Wednesday?
Monday - $\frac{7}{10}$
Tuesday- $\frac{1}{5}=\frac{2}{10}$
Wednesday $-\frac{1}{10}$

$$
\frac{7}{10}+\frac{2}{10}=\frac{9}{10} \quad \frac{10}{10}-\frac{9}{10}=\frac{1}{10}
$$

$\qquad$
$\qquad$
12. Daniel wants to buy a new bicycle. It is priced at $£ 480$.


Daniel can either

- pay $£ 480$ immediately, or
- pay a $15 \%$ deposit, followed by 24 monthly payments of $£ 22$.
(a) Calculate the total amount Daniel would pay using the deposit and monthly payments method.
You must show all your working.


 method.
You must show all your working


(a) Calculate the total amount Daniel would pay using the deposit and monthly payments method. You must show all your working.
$10 \%$ of $480=E 48$
$5 \%$ of $480=\frac{E 24}{E 72}$-Deposite
10 monthly payments $=£ 22 \times 10=E 220$

$$
E 220 \times 2=E 440+(4 \times 22)=E 88
$$

$$
1440+88=1528
$$

$$
\begin{array}{r}
E 72 \\
+\frac{1600}{}
\end{array}
$$

he would pay 5600
(a) Calculate the total amount Daniel would pay using the deposit and monthly payments method. You must show all your working.
$10 \%$ of $480=E 48$
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10 monthly pay mounts $=£ 22 \times 10=£ 220$

$$
E 220 \times 2=E 440+(4 \times 22)=E 88
$$

$$
1440+88=E 528
$$

$$
\begin{array}{r}
E 72 \\
+\frac{7600}{}
\end{array}
$$

he would pay 5600
$\qquad$
12. (b) Find the percentage increase in the cost of the bicycle when Daniel pays using the deposit and monthly payments method.

Examiner
$\qquad$
$\qquad$
$\qquad$
12.
12.

12.
(b) Find the percentage increase in the cost of the bicycle when Daniel pays using the deposit and monthly payments method.


The Percentage in crease is by $25 \%$
12.
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The percentage in crease is by $25 \%$
12.
(b) Find the percentage increase in the cost of the bicycle when Daniel pays using the deposit and monthly payments method.

$$
\begin{array}{cc}
{ }^{5} 6100 & +48 \\
\frac{480}{182}+\frac{48}{96} & \frac{90}{120}
\end{array}
$$

El20 difference
$\qquad$

$$
25 \% \text { increase }
$$

12. 

(b) Find the percentage increase in the cost of the bicycle when Daniel pays using the deposit and monthly payments method.

$$
\begin{aligned}
& 5600+\frac{48}{480}+\frac{48}{420}+\frac{204}{120} \\
& \frac{40}{120}
\end{aligned}
$$

El20 difference

$$
25 \% \text { increase. }
$$

