GCSE Methods in Mathematics Unit 1 Foundation 4363-01

All Candidates' performance across questions


GCSE Methods in Mathematics Unit 1 Foundation 4363-01

3. Complete the following table.

The first row has been done for you.

| Angle | Name of angle | Reason |
| :---: | :---: | :---: |
|  | Acute |  |

3. Complete the following table

The first row has been done for you.
Holst run ias been done ioryou.


3. Complete the following table.

3. Complete the following table.

The first row has been done for you,

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

Both Len's Store and Deb's Store sell the same moisturising lotion, in the same sized bottles.


Siwan needs to buy 12 bottles of moisturising lotion.
Which of the two stores has the better offer for Siwan?
You must show all your working.
$\qquad$
$\qquad$
$\qquad$
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4. Yuralbe asscoret of ithe quaity of yeur wratof nomminicascon in thir question



Swan noeds ts bay 12 nopties of molstarising lotion
Which of the two stores has the befter uffer for Siwan?
You mat elow el your aorking
Len's Store
$4 \frac{03}{12}=3$ botthes ree
0.90

5. Yav ibl be prassted on the qualy of your witee communication in this question

E-fin Leny SAue and Gewris Store soll the ame moisturing totion, in the sarne sized botbles.


Sisan noeds ta buy 12 topties of moisturising lotion
Which of the two etores has the bellor offor for Siwan?
you met thow all your working
L-in's Storef
$4 \frac{03}{12}=3$ bottles
Buy two get $3^{\text {rd }}$ free
Doisturising Lotion cr.eo

8. New wis be aspersed on pee quality of your writhen comphumination in this question



Sivan needs to buy 12 potties of moisturising lotion.
Which of the two stores has the better offer for Sivan? You must show all your working.
hens working ave
$12 \times 90$ \{10.80 for in boteres
$3,9689,18,11,12$ thorkng our

$$
\begin{array}{ll}
90 & 3,9,6,79,18,11,12 \\
99 & 109 \\
1,2,3,4,5,6,7,8,9,10,11,12 \\
9 \times 90=E 8,0
\end{array}
$$

Den's

$$
\begin{aligned}
& 12 \times 100=E 1200<\text { working out for } 12 \text { boteiles } \\
& 1,2,3) 4,6,6,(7,8,(9), 10,(11), 12 \text { t twerking out. } \\
& 7 \times 1 \cdot 00=E 7 \cdot O O
\end{aligned}
$$

It's Cheaper for simian to buy the moisturising lotion from Deb's store.




Swan needs to buy 12 bottles of moisturising lotion
Which of the two stores has the better offer for Sivan? You must show all your working.
$\frac{12 \text { ens }}{12 \times 90}=1080$ for 12 botues

$$
\begin{aligned}
& 12 \times 90 \text { :1080 } \\
& 3,(4,6,7) 9,10,11,12 \text { ind offer } X \\
& 1,2,3,4,5,6,7,8,9,16,11,22 x \text {. } \\
& 9 \times 90=[8,0
\end{aligned}
$$

Dens

$$
\begin{aligned}
& 12 \times 1.00=E 1200=\text { working out } 12 \text { bottles } \\
& 1,2(3), 4,5), 6,(0,8,(9), 10,(11), 12=\text { the of of out, } \\
& 7 \times 1.00=E 7.00 \quad x
\end{aligned}
$$

It's cheaper for stan to buy the moisturising lotion from Deb's store.

[^0](b) Write down 50 p as a fraction of $£ 4$ in its simplest form.
7. (a) Showing all your working, what $\frac{1}{2}, \frac{5}{8}$, and $\frac{3}{4}$ in order, starting with the largest.
$$
\frac{1}{2} \underset{x_{5}}{x} \frac{4}{5} \quad \frac{5}{5}=\frac{5}{5} \quad \frac{3}{4}=\frac{6}{x}
$$
$$
\operatorname{ardep}=\frac{6}{5} \text { er } \frac{3}{6}-\frac{5}{8}, \frac{1}{2} \text { or } \frac{4}{5}
$$
7. (a) Showing all your working, write $\frac{1}{2}, \frac{5}{8}$, and $\frac{3}{4}$ in order, starting with the largest.


Order $=\frac{6}{8}$ or $\frac{3}{4}-\frac{5}{8}, \frac{1}{2}$ or $\frac{4}{8}$
(a) Showing all your working, write $\frac{1}{2}, \frac{5}{8}$, and $\frac{3}{4}$ in order, starting with the largest. [3] $\frac{3}{4}, \frac{5}{8}, \frac{1}{2}$
7. (a) Showing all your working, write $\frac{1}{2}, \frac{5}{8}$, and $\frac{3}{4}$ in order, starting with the largest.
16.


The two spinners are spun.
The score is the total of the two numbers shown on the spinners.
The score shown above is eight.
There are two different game cards, card $A$ and card $B$.
A game is played, crossing out the scores from the spinners on the game card as the spinners are spun repeatedly.
The first game card with all four scores crossed out is the winning card.

Game card A

| 3 | 2 |
| :---: | :---: |
| 9 | 10 |

## Game card B

| 4 | 6 |
| :--- | :--- |
| 5 | 7 |

Which game card is more likely to be the winning card?
You must show your working and give a reason for your answer.


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The indore is the tote of the two numbers shown on tho spinners
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or Lat $\operatorname{lay}_{6} \quad 1+1=2 \quad 1+2=3 \quad 1+4=5 \quad 1+5=6$
$16=7$ the humber Hat ore shaun on the stance be nim or a chance to (an) on to n number there could cone lo 7 or 6 .

If you add all the posille $u$, of the act angus bowel get from thee too Spinner gov url hove Mut: af a Chance Go get Game Cornel Bu Insert of Crank cord $A$ For 4 and pu $4+2=6$ $4+3=7 \quad 2+3=7 \quad 5+4=9 \quad 9 \quad$ most on
 Eyonmplen



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Game card A

| 3 | 2 |
| :---: | :---: |
| 9 | 10 |


| Gar | ard $B$ |
| :---: | :---: |
| 4 | 6 |
| 5 | 7 |

Which game card is more likely to be the winning card?
You must show your working and give a reason for your answer.
Game cars bs B is mast
(irelg going to un becow the number ar spewed one and are not tor hush or too by. $\quad 1+1=2 \quad 1+2=3 \quad 1+4=5 \quad 1+5=6$
$1+6=7$ the number that are shown on this spinose hes mos of a chance lo Land on two numbers that could cone $l_{b} 7$ or 6 .

If you add all the possible us, of the acts Mort of a chan to get Guns Cord B3 instar
of cane Cad $A$ for Expupe. $4+2=6$ $4+3=4 \quad$
$2+3=7$$\quad \begin{aligned} & \text { Cor } \\ & 5+4=9 \quad 4+2=6\end{aligned}$ the answers yin will get will cone to th same as Game cud $B$ as show from a pes of the examples
16.



The two spinners are spun.
The scorn is the total of the foo numbers shown on the spinners:
The moore shown above is eight.
There are two different game cards, card A and card B
A game is played, crossing out the scores from the spinners on the game pard as the spienverse are spun repeatedly.
The first game card with all four scores crossed out is the winning card.

| Game card $A$ |
| :--- |
| 3 2 <br> 9 10 |


$\underbrace{4}_{2}$| Game card B |  |  |
| :---: | :---: | :---: |
| 4 | 6 |  |
| 5 | 7 |  |
| 2 |  |  |

Which game card is moro likely to to the winning card? You must show your working and give a reason for your answer:

$$
\begin{array}{llll}
1+1=2 & 1+2=3 & 2+3=5 & 3+4=7 \\
2+2=4 & 1+3=4 & 2+4=6 & 3+5=8 \\
3+3=6 & 1+4=5 & 2+5=7 & \\
4+4=8 & 1+5=6 & 2+1+2=1 & \\
5+5=10 & & &
\end{array}
$$

Card B is more ukely to win the game because there is more possible ways to
make the numbers, $4,5,6$ and 7 when the Spinner is span.
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, Game card $A$ A | 3 | 2 |
| :---: | :---: |
| 9 | 10 |.

| Game card B |  |  |
| :---: | :---: | :---: |
| 4 | 6 |  |
| 5 | 7 |  |
| $z$ |  |  |

Which game card is more likely to be the winning card? You must show your working and give a reason for your answer

$$
\begin{array}{llll}
1+1=2 & 1+2=3 & 2+3=5 & 3+4=7 \\
4+5=9 \\
2+2=4 & 1+3=4 & 2+4=6 & 3+5=8 \\
3+3=6 & 1+4=5 & 2+5=7 & \\
4+4=8 & 1+5=6 & 2+125 & \\
5+5=10 & & &
\end{array}
$$

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[^0]:    7. (a) Showing all your working, write $\frac{1}{2}, \frac{5}{8}$, and $\frac{3}{4}$ in order, starting with the largest.
