GCSE Mathematics Unit 2 4352-02

All Candidates' performance across questions


GCSE Mathematics Unit 2 4352-02

12. (a) Expand and simplify $(c+3)(2 c-5)$.
$\qquad$
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\[\)| $2 c c+c x-5+3 \times 2 c+3 x-5$ |
| :--- |

\]

$$
2 c^{2}-5 c+6 c=15
$$

$2 c^{2}-11 c-15$ [2] Examin
12. (a) Expand and simplify $(c+3)(2 c-5)$

\[\)| $20 x+c x-5+3 \times 2 c+3 x-5$ |
| :--- |
| $2 c^{2}-5-5 c+6 c-15$ |
| $2 c^{2}-11 c-15$ |

\]

(b) Make $w$ the subject of the following formula.

$$
\begin{array}{|l}
\text { 12. (a) Expand and simplify }(\underbrace{(c+3)(2 c-5)} \text {. } \\
2 c^{2}-5 c-15 \\
2 c^{2}-1 c-15
\end{array}
$$

$$
\begin{aligned}
& \text { 12. (a) Expand and simplify } \begin{array}{l}
(c+3)(2 c-5) \\
2 c^{2}-5 c+6 c-15 \\
2 c^{2}-1 c-15
\end{array} .
\end{aligned}
$$

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$2 c^{2}-5 c+6 c-15$
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$2 c^{2}-5 c+6 c-15$
$3 c^{2}-15$
(b) Evaluate $\left(\frac{27}{8}\right)^{-\frac{1}{3}}$.
14. 

$$
\begin{aligned}
& \text { (b) Evaluate }\left(\frac{278}{8}\right)^{-\frac{1}{3}} \\
& \frac{8}{37} \sqrt[3]{\frac{8}{27}} \quad \frac{2}{3}
\end{aligned}
$$

15. 

$\left.\begin{array}{lll}\text { (b) } \begin{array}{lll}\text { Evaluate }\left(\frac{27}{8}\right)^{-\frac{1}{3}} \\ 8^{\frac{1}{3}} & & \\ \hline 27 & \sqrt[3]{\frac{8}{27}} & \frac{2}{3} \\ & & \boxed{2}\end{array} & \\ & & \end{array}\right)$
15.
(b) Evaluate $\left(\frac{27}{8}\right)^{-\frac{1}{3}}$.
[2]
$\left(\frac{27}{8}\right)^{-1 / 3}=\frac{1}{(27 / 8)^{1 / 3}}=\frac{1}{\sqrt[3]{\left(\frac{27}{8}\right)}}=\frac{1}{\left(\frac{3}{2}\right)}=\frac{1}{(1 / 2)}=\frac{1}{1.5}=\frac{10}{\frac{2}{15}}$
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\end{array}
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$\qquad$
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15. Each of the numbers $1,3,5,5,5,6,7,8$ is written on a card.
13555678

Two of the eight cards are selected at random, without being replaced.
Find the probability that
(a) the product of the numbers on the two cards selected is 25 ,
15. Each of the numbers $1,3,5,5,5,6,7,8$ is written on a card.


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$$
\begin{aligned}
5 \times 5 & =25 \\
P(5 \times 5) & =3 / 8 \times 3 / 8 \\
& =9 / 64
\end{aligned}
$$

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