

Name:

Exam Style Questions

Multiplying Terms



Equipment needed: Pen, Calculator

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 18



Answers and Video Solutions



1. Simplify $w \times 5$



.....
(1)

2. Simplify $2 \times 5m$



.....
(1)

3. Simplify $x \times x$



.....
(1)

4. Simplify $a \times c \times b$



.....
(1)

5. Simplify $x \times y \times 3$



.....
(1)

6. Simplify



(a) $8 \times y \times 2$

.....
(1)

(b) $a \times a \times a$

.....
(1)

(c) $3 \times a \times c$

.....
(1)

(d) $w \times 5 \times e$

.....
(1)

(e) $2y \times y$

.....
(1)

(f) $3a \times 4c$

.....
(1)

(g) $5w \times 6w$

.....
(1)

(h) $2m^2 \times 4m$

.....
(1)

7. Which of the following expressions is not equal to the others?



$4a \times 2y$

$8a \times y$

$2ay \times 4a$

$a \times 8y$

.....
(2)

8. Aaron is trying to simplify $3y \times y$

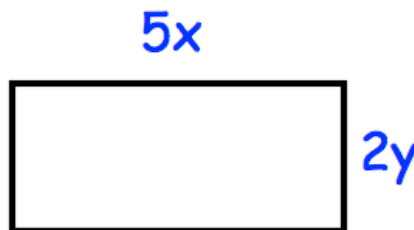


His answer is $4y$

Explain his mistake.

.....
.....
(2)

9. A rectangle has length $5x$ and width $2y$.



Find an expression for the area of the rectangle.

.....
(2)

10. Simplify $y \times y \times y$



.....
(1)

11. Simplify $5 \times m \times p$



.....
(1)

12. Simplify $w^5 \times w^3$



.....
(1)

13. Simplify $5a \times 3a \times 2a$



.....
(1)

14. Simplify $p \times s \times 5$



.....
(1)

15. Simplify $9 \times c \times d \times 3$



.....
(1)

16. Simplify $74c \times 21d$



.....
(1)

17. Isla is simplifying $y + 2y \times y$



Circle the correct answer.

$4y$

$3y^2$

$2y^3$

$2y^2 + y$

.....
(1)

18. Simplify



(a) $m^2 \times m^2$

.....
(1)

(b) $w^9 \times w^8$

.....
(1)

(c) $8k^3 \times 2k^2 \times k$

.....
(1)

(d) $-5y^2 \times 5y$

.....
(1)

(e) $4am \times m$

.....
(1)

(f) $(-2) \times (-4ay) \times (-2a)$

.....
(1)

(g) $6ay \times 3ay$

.....
(1)

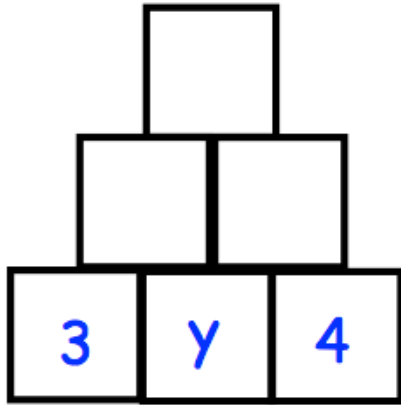
-
19. A rectangle and square have the same area.
The rectangle has length $12x$ and width $3x$



Find the length of each side of the square.

.....
(3)

20.



To find the contents of each empty box, multiply the two terms directly beneath it.

Complete the multiplication pyramid.

(3)

21. Henry, Jack, Leon and Conor are trying to work out $4w^2 \times 2w^5$



Henry says the answer is $6w^7$

Jack says the answer is $8w^7$

Leon says the answer is $8w^{10}$

Conor says the answer is $6w^{10}$

Tick a box to show who is correct.

Henry

Leon

Jack

Conor

(1)

22. Simplify $2y^3 \times 3y^2$



.....
(2)

23. Simplify $6c^2d \times 4cd^3$



.....
(2)

24. Simplify $y^8 \times y^{-2}$



.....
(1)

25. Simplify $8a^{-3}c^4 \times 2a^4c$



.....
(2)

26. Simplify $\frac{3}{5} \times 20y$



.....
(1)

27. The rule for a sequence is that each term is found by multiplying the two previous terms.



The first two terms are $2x$ and $3y$.

$2x$ $3y$ \dots \dots

Find the next three terms.

.....
(3)

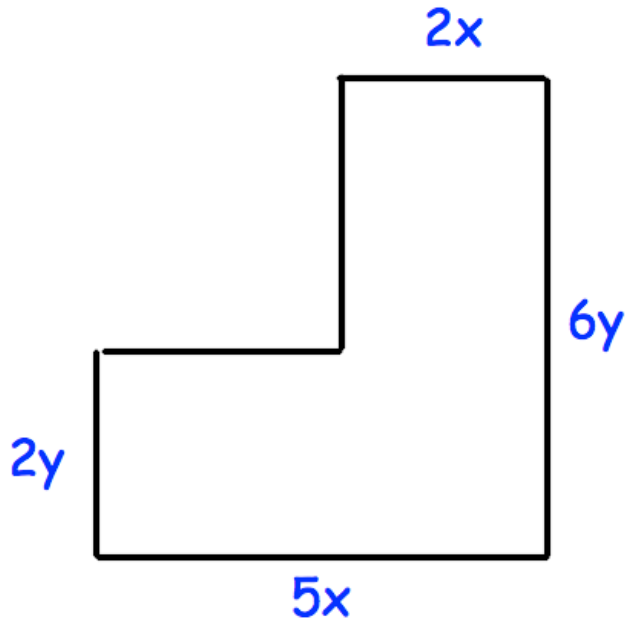
28. Simplify



$$(4cd^3)^2$$

.....
(2)

29.



Write down an expression for the area of the shape.

.....
(3)