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	$w \times 5$	
			5w
2.	Simplify	$2 \times 5m$	(1)
			10m
3.	Simplify	$x \times x$	
11			JL 2 (1)
4.	Simplify	$a \times c \times b$	
			abc (1)

Simplify $x \times y \times 3$



6. Simplify



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

16y (1)

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

<u>a</u> 3

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

300

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

5ew (1)

(e) $2y \times y$

2y²
(1)

(f) $3a \times 4c$

12ac (1)

(g) $5w \times 6w$

30ω² (1)

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

 $8n^3$ (1)

	7	
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0 0 11 11	0	P

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

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Q.	2.6	30	9	
	9.5			
	2.5	2		-
_	700	_	-	

8 my

Bay

8my 8my

2 my ×4 m (8 m² y)

8.

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

His answer is 4y

Explain his mistake.

Auson	has	worked	out	3y 7	ty.	not	34 X4
				0	J J.		0

(2)

A rectangle has length 5x and width 2y.



Find an expression for the area of the rectangle.

52 X 24

10.	Simplify	$y \times y \times y$	
THE OWNER OF THE OWNER	1.0-4.0. eVar milion barrance production of the way		y ³ (1)
11.	Simplify	$5 \times m \times p$	
			5mp (1)
12.	Simplify	$w^5 \times w^3$	
			₩ ⁸
13.	Simplify	$5a \times 3a \times 2a$	
			30a ³
14.	Simplify	$p \times s \times 5$	
			5ps (1)
15.	Simplify	$9 \times c \times d \times 3$	
			27cd

(1)

16.	Simplify	74 <i>c</i>	×	21d
	, ,			



1554 cd

	- No.	1	7	
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Isla is simplifying $y + 2y \times y$

Circle the correct answer.

 $4y 3y^2 2y^3$



Order of operations multiplication before addition.

(1)

Simplify 18.



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

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

(1)

(c)
$$8k^3 \times 2k^2 \times k^4$$

16 k 6

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

$$-25y^{3}$$
 (1)

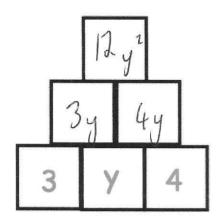
(e) $4am \times m$

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

(g) $6ay \times 3ay$

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.



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

Complete the multiplication pyramid.

(3)

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

Henry says the answer is $6w^7$ \times

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

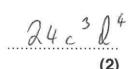
Conor

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



23.

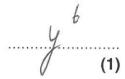
Simplify $6c^2d \times 4cd^3$



24. Simplify

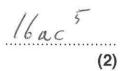


$$y^8 \times y^{-2}$$



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





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



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.

Find the next three terms.

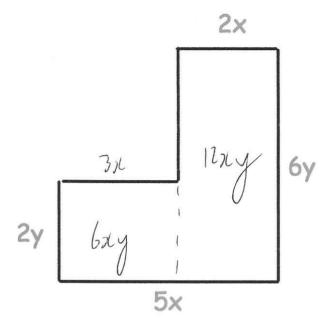
$$2x \times 3y = 6xy$$
 $3y \times 6xy = 18xy^{2}$
 $6xy \times 18xy^{2} = 108x^{2}y^{3}$

624 1824 108x 3

28. Simplify

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

16 c 2 d 6



Write down an expression for the area of the shape.

18xy (3)