

Name:

Exam Style Questions

Dividing Terms



Equipment needed: Pen

### 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](http://www.corbettmaths.com/contents)

Video 11



Answers and Video Solutions



1. Simplify  $18x \div 3$



6x  
(1)

2. Simplify  $\frac{20m}{5}$



4m  
(1)

3. Simplify  $24y \div 8$



3y  
(1)

4. Simplify  $\frac{21a}{3}$



7a  
(1)

5. Simplify  $\frac{8c}{2c}$



4  
(1)

6. Simplify fully  $12y^2 \div 2y$



by  
(2)

7. Simplify  $\frac{13w + 23w}{6}$



$$\frac{36w}{6} = 6w$$

6w  
(1)

8. Match the equivalent expressions.



$\frac{4x^2}{2x}$	$2x^2$
$\frac{6x}{3x}$	$2x$
$\frac{8x^3}{4x}$	$2$

Handwritten lines connect the expressions as follows:  
-  $\frac{4x^2}{2x}$  is connected to  $2x$ .  
-  $\frac{6x}{3x}$  is connected to  $2$ .  
-  $\frac{8x^3}{4x}$  is connected to  $2x^2$ .

(2)

9. Simplify fully  $\frac{8w}{12w}$



$$\frac{8}{12} = \frac{2}{3}$$

$$\frac{2}{3}$$

(2)

10. Simplify  $\frac{8y + 12}{2}$



$$4y + 6$$

(1)

11. Simplify  $18x^5 \div 6x^2$



$$3x^3$$

(2)

12. Simplify fully  $14ac^2 \div 7c$



$$2ac$$

(2)

13. Simplify fully  $\frac{24a^2w^2}{3a}$



$$\frac{8aw^2}{\dots}$$

(2)

14. Simplify fully  $10a^3 \div 2a$



$$\frac{5a^2}{\dots}$$

(2)

15. Simplify  $c^8 \div c^2$



$$\frac{c^6}{\dots}$$

(1)

16. Simplify  $\frac{12x^6}{4x^2}$



$$\frac{3x^4}{\dots}$$

(2)

17. Simplify fully  $\frac{8c^6}{4c^3}$



$$2c^3$$

(2)

18. Simplify  $\frac{a \times a \times a \times b}{a \times b \times b}$



$$\frac{a^3 b}{ab^2} = \frac{a^2}{b}$$

$$\frac{a^2}{b}$$

(2)

19. Simplify  $\frac{x^5 y^3}{xy^2}$



$$x^4 y$$

(2)

20. Simplify  $36x^8 y^2 \div 9x^5 y$



$$4x^3 y$$

(2)

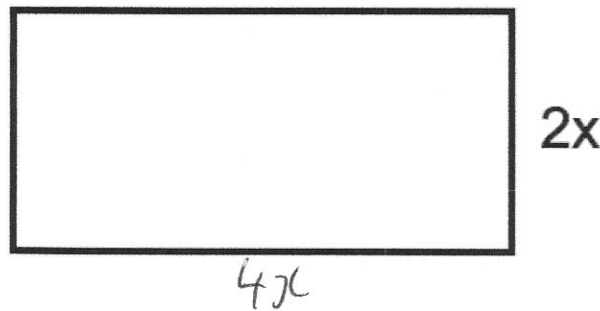
21. Simplify fully

$$\frac{4c^5g^3}{4c^2g^2}$$



$$\frac{c^3g}{g^2} \dots \dots \dots (2)$$

22. Shown below is a rectangle, with width  $2x$



The area of the rectangle is  $8x^2$

Find the perimeter of the rectangle.

$$8x^2 \div 2x = 4x$$

$$4x + 2x + 4x + 2x$$

$$\dots \dots \dots 12x \dots \dots \dots (4)$$

23. Simplify  $\frac{(x^8)^3}{x^4}$



$$\frac{x^{24}}{x^4}$$

$$x^{20}$$

(2)

24. Simplify  $\frac{5x^4}{x^{-2}}$



$$5x^6$$

(2)

25. Simplify  $\frac{4(x+3)}{(x+3)^2}$



$$\frac{4}{x+3}$$

(2)