Exam Style Questions

Reciprocals

Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

www.corbettmaths.com/contents

Video 145

1. Fill in the blanks

$$\frac{2}{3} \times \frac{\boxed{3}}{\boxed{2}} = 1$$

(1)

2. Fill in the blanks

$$\frac{4}{7} \times \frac{\boxed{7}}{\boxed{4}} = 1$$

(1)

3. Fill in the blanks

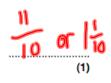$$8 \times \frac{\boxed{1}}{\boxed{8}} = 1$$

(1)

4. Fill in the blanks

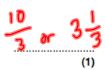$$\frac{1}{9} \times \boxed{9} = 1$$

(1)

5.   Choose the correct word from the list to complete each sentence.

        square   square root   reciprocal   cube   cube root

(a)   25 is the ....*Square*................ of 5

(b)   ⅓ is the ....*reciprocal*................ of 3

(c)   7 is the ....*Square root*................ of 49

(d)   8 is the ....*cube*................ of 2

                                                                                                (4)

6.   What is the reciprocal of 4?

       Circle the correct answer.

            4   0.4   (¼)   − 4

                                                                                                (1)

7.   Write down the reciprocal of 5

                                                                            $\frac{1}{5}$

                                                                                                (1)

8.   Write down the reciprocal of ⅔

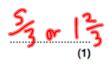 $\frac{3}{2}$ or $1\frac{1}{2}$

                                                                                                (1)

9. Write down the reciprocal of $\frac{10}{11}$

$\frac{11}{10}$ or $1\frac{1}{10}$

(1)

10. Write down the reciprocal of $\frac{3}{10}$

$\frac{10}{3}$ or $3\frac{1}{3}$

(1)

11. Find the reciprocal of $\frac{1}{12}$

12

(1)

12. Find the reciprocal of 0.5

$\frac{1}{2}$

2

(1)

13. Work out the reciprocal of 0.6

$$\frac{3}{5}$$

$\frac{5}{3}$ or $1\frac{2}{3}$

(1)

14. Work out the reciprocal of 0.7

$$\frac{7}{10}$$

$\frac{10}{7}$ or $1\frac{3}{7}$

(1)

15. Work out the reciprocal of 1.5

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

$\frac{2}{3}$

(1)

16. Work out the reciprocal of 20.
    Give your answer as a decimal

$$\frac{1}{20}$$

0.05

(2)

17. James is thinking of a number.
He writes down the reciprocal of the number.
It is the same as his starting number.

What is the number James is thinking of?

................**1**.............
(1)

18. Write down the number that does not have a reciprocal.

................**0**.............
(1)

19. Write down the reciprocal of 0.22

$$\frac{22}{100} = \frac{11}{50}$$

$$\frac{50}{11} \text{ or } 4\frac{6}{11}$$
(1)