

Name:

Exam Style Questions

## Reciprocals



Equipment needed: Calculator, 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 145



Answers and Video Solutions



1. Fill in the blanks



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

(1)

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2. Fill in the blanks



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

(1)

---

3. Fill in the blanks



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

(1)

---

4. Fill in the blanks



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

(1)

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



square      square root      reciprocal      cube      cube root

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

(b)  $\frac{1}{3}$  is the ..... of 3

(c) 7 is the ..... of 49

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

(4)

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6. What is the reciprocal of 4?



Circle the correct answer.

4      0.4       $\frac{1}{4}$       -4

(1)

---

7. Write down the reciprocal of 5



.....  
(1)

---

8. Write down the reciprocal of  $\frac{2}{3}$



.....  
(1)

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



.....  
(1)

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



.....  
(1)

---

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



.....  
(1)

---

12. Find the reciprocal of 0.5



.....  
(1)

13. Work out the reciprocal of 0.6



.....  
(1)

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14. Work out the reciprocal of 0.7



.....  
(1)

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15. Work out the reciprocal of 1.5



.....  
(1)

---

16. Circle the reciprocal of  $\frac{3}{4}$



$$\frac{1}{4}$$

$$\frac{4}{3}$$

$$-\frac{1}{4}$$

$$-\frac{4}{3}$$

(1)

17. Circle the reciprocal of  $\frac{5}{8}$



1.125

0.2

1.6

0.625

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(1)

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



.....  
(2)

19. 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)

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



.....  
(1)

21. Write down the reciprocal of 0.22



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