

Name:

Exam Style Questions

## Fractions: Midpoint



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)

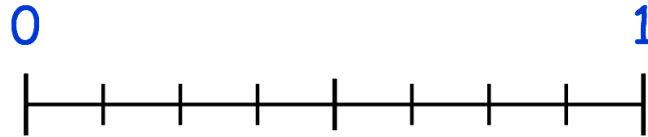
Video 141a



Answers and Video Solutions



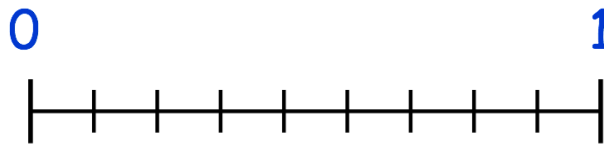
1.



Work out the fraction that is exactly halfway between  $\frac{1}{8}$  and  $\frac{5}{8}$

.....  
(1)

2.



Find the fraction that is halfway between  $\frac{2}{9}$  and  $\frac{8}{9}$

.....  
(1)

3. Work out the fraction that is halfway between  $\frac{2}{15}$  and  $\frac{12}{15}$



.....  
(2)

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4. Find the midpoint of  $\frac{11}{20}$  and  $\frac{19}{20}$



.....  
(2)

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5. Work out the fraction that is halfway between  $\frac{17}{50}$  and  $\frac{41}{50}$



.....  
(2)

6. Find the midpoint between  $\frac{1}{5}$  and  $1\frac{2}{5}$



.....  
(2)

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7. Find the midpoint of  $\frac{1}{4}$  and  $\frac{17}{20}$



.....  
(2)

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8. Work out the fraction that is halfway between  $\frac{2}{3}$  and  $\frac{4}{9}$



.....  
(2)

9. Find the number that is halfway between  $\frac{4}{15}$  and  $2\frac{2}{3}$



.....  
(3)

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10. Find the fraction that is halfway between  $\frac{1}{2}$  and  $\frac{1}{8}$



.....  
(2)

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11. Find the number that is halfway between  $\frac{2}{3}$  and  $\frac{7}{8}$



.....  
(2)

12. Calculate the midpoint of  $\frac{19}{40}$  and  $\frac{5}{6}$



.....  
(2)

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13. Find the number that is halfway between  $\frac{3}{10}$  and  $\frac{3}{4}$



.....  
(2)

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14. Calculate the midpoint of  $3\frac{2}{5}$  and  $6\frac{7}{12}$



.....  
(2)

15. Ryan says that the midpoint of  $\frac{3}{20}$  and  $\frac{11}{20}$  is  $\frac{7}{10}$



Is Ryan correct?  
Explain your answer.

.....

.....

.....

**(2)**

- 
16. Emily and Neela think of two different fractions.



The midpoint of the two fractions is  $\frac{2}{3}$

Emily says her fraction is  $\frac{1}{2}$

What fraction is Neela thinking of?

.....  
**(3)**

17. Otis and Cleo think of two different fractions.



The midpoint of the two fractions is  $1\frac{5}{8}$

Otis says his fraction is  $\frac{9}{10}$

What fraction is Cleo thinking of?

.....  
**(3)**

18.



$\frac{1}{2}$

$\frac{3}{10}$

$\frac{5}{21}$

$\frac{2}{5}$

$\frac{4}{9}$

$\frac{1}{3}$

Work out the median

.....  
**(3)**



19. x is the midpoint of  $1\frac{2}{5}$  and  $\frac{3}{10}$



The midpoint of x and y is  $\frac{2}{3}$

Find the value of y.

.....  
(5)