

Name: _____

Exam Style Questions

Finding the midpoint of two numbers



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

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Video 217



1. Work out the number that is halfway between 20 and 70

$$20 + 70 = 90$$
$$90 \div 2 = 45$$

.....45.....
(1)

2. Work out the number that is halfway between 11 and 37

$$11 + 37 = 48$$
$$48 \div 2 = 24$$

.....24.....
(1)

3. Work out the number that is halfway between 125 and 275

$$125 + 275 = 400$$
$$400 \div 2 = 200$$

.....200.....
(1)

4. Work out the number that is halfway between 1.9 and 2.7

$$1.9 + 2.7 = 4.6$$
$$4.6 \div 2 = 2.3$$

.....2.3.....
(1)

5. Work out the number that is halfway between 4.2 and 5.8

$$4.2 + 5.8 = 10$$
$$10 \div 2 = 5$$

.....5.....
(1)

6. Work out the number that is halfway between 3.9 and 4.8

$$3.9 + 4.8 = 8.7$$

$$8.7 \div 2 = 4.35$$

$$\underline{4.35}$$

(1)

7. Work out the number that is halfway between -3 and 7

$$-3 + 7 = 4$$

$$4 \div 2 = 2$$

$$\underline{2}$$

(1)

8. Work out the number that is halfway between -15 and -2

$$-15 + -2 = -17$$

$$-17 \div 2 = -8.5$$

$$\underline{-8.5}$$

(1)

9. Work out the number that is halfway between -10 and 25

$$-10 + 25 = 15$$

$$15 \div 2 = 7.5$$

$$\underline{7.5}$$

(1)

10. Work out the number that is halfway between 1.15 and 5.24

$$1.15 + 5.24 = 6.39$$

$$6.39 \div 2 = 3.195$$

$$\begin{array}{r} 3.195 \\ 2 \overline{) 6.390} \end{array}$$

$$\underline{3.195}$$

(1)

11. Work out the temperature which is halfway between -3°C and 7°C

$$\begin{aligned} -3 + 7 &= 4 \\ 4 \div 2 &= 2 \end{aligned}$$

.....2..... $^{\circ}\text{C}$
(1)

12. Write down the number that is halfway between 1.6 and 1.7

$$\begin{aligned} 1.6 + 1.7 &= 3.3 \\ 3.3 \div 2 &= 1.65 \end{aligned}$$

.....1.65.....
(1)

13. Caroline says that 20% is halfway between 10% and $\frac{3}{5}$
Is Caroline correct? 60%
You must explain your answer.

$$\begin{aligned} 10 + 60 &= 70 \\ 70 \div 2 &= 35 \end{aligned}$$

.....Midway between 10% and $\frac{3}{5}$
.....(60%) is 35% not 20%
.....

(2)

14. Jason and Gary think of two different numbers.
The midpoint of the two numbers is 23.
Jason says his number is 9.

What number is Gary thinking of?

$$\begin{aligned} 23 \times 2 &= 46 \\ 46 - 9 &= 37 \end{aligned}$$

.....37.....
(2)

15. Wendy and Sally think of two different numbers.
The midpoint of the two numbers is 12.5
Wendy says her number is 5

What number is Sally thinking of?

$$12.5 \times 2 = 25$$
$$25 - 5 = 20$$

.....20.....
(2)

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16. Alison has £1.40
Scott has £2.90

How much should Scott give Alison so that they will have the same amount of money?

$$2.90 + 1.40 = £4.30$$
$$£4.30 \div 2 = £2.15$$

$$£2.90 - £2.15 = 75p$$

.....75p.....
(2)

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17. Judy has £12.30
Max has £25.20

How much should Max give Judy so that they will have the same amount of money?

$$25.20 + 12.30 = 37.50$$
$$37.50 \div 2 = £18.75$$

$$\begin{array}{r} 114 \quad 11 \\ £25.20 \\ - £18.75 \\ \hline 6.45 \end{array}$$

.....£6.45.....
(2)