

Decide whether two ratios are equivalent

NAME	DATE	SCORE / 10
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1 Which statement about the ratios 6:5 and 9:8 is true?

- ☐ Not equivalent: 3 is added to both, not multiplied
☐ Equivalent: 3 is added to both numbers ☐ Equivalent: both numbers are multiplied by 2
☐ Not equivalent: the second ratio has bigger numbers

2 Which of these ratios are equivalent to 7 : 9?

Tick every answer that is true.

- ☐ **A** 42 : 54
☐ **B** 35 : 45
☐ **C** 12 : 14
☐ **D** 22 : 27
☐ **E** 9 : 7

3 Which statement about the ratios 7:2 and 14:4 is true?

- ☐ Not equivalent: the second ratio has bigger numbers
☐ Equivalent: 7 is added to both numbers ☐ Equivalent: both numbers are multiplied by 2
☐ Not equivalent: 7 is added to one and 2 to the other

4 Which of these ratios are equivalent to 2 : 9?

Tick every answer that is true.

- ☐ **A** 4 : 11
☐ **B** 8 : 36
☐ **C** 4 : 18
☐ **D** 5 : 12
☐ **E** 6 : 27

5 Which statement about the ratios 6:7 and 18:21 is true?

- ☐ Equivalent: both numbers are multiplied by 3
 - ☐ Not equivalent: the second ratio has bigger numbers
 - ☐ Equivalent: 12 is added to both numbers
 - ☐ Not equivalent: 12 is added to one and 14 to the other
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6 Which of these ratios are equivalent to 7 : 9?

Tick every answer that is true.

- ☐ **A** 28 : 36
 - ☐ **B** 42 : 15
 - ☐ **C** 14 : 18
 - ☐ **D** 42 : 54
 - ☐ **E** 36 : 45
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7 Which statement about the ratios 7:2 and 11:6 is true?

- ☐ Not equivalent: the second ratio has bigger numbers
 - ☐ Not equivalent: 4 is added to both, not multiplied
 - ☐ Equivalent: 4 is added to both numbers
 - ☐ Equivalent: both numbers are multiplied by 2
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8 Which of these ratios are equivalent to 7 : 8?

Tick every answer that is true.

- ☐ **A** 21 : 11
 - ☐ **B** 28 : 32
 - ☐ **C** 12 : 13
 - ☐ **D** 21 : 24
 - ☐ **E** 8 : 7
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9 Which statement about the ratios 5:2 and 16:13 is true?

- ☐ Equivalent: both numbers are multiplied by 2
- ☐ Not equivalent: the second ratio has bigger numbers
- ☐ Not equivalent: 11 is added to both, not multiplied
- ☐ Equivalent: 11 is added to both numbers

10 Which of these ratios are equivalent to 7 : 5?

Tick every answer that is true.

☐ **A** 22 : 15

☐ **B** 35 : 25

☐ **C** 9 : 7

☐ **D** 14 : 10

☐ **E** 28 : 20

Decide whether two ratios are equivalent

1 Not equivalent: 3 is added to both, not multiplied

3 Equivalent: both numbers are multiplied by 2

5 Equivalent: both numbers are multiplied by 3

7 Not equivalent: 4 is added to both, not multiplied

9 Not equivalent: 11 is added to both, not multiplied

2 A, B

Tick exactly these: A: 42 : 54; B: 35 : 45. One missed or one extra is wrong.

4 B, C, E

Tick exactly these: B: 8 : 36; C: 4 : 18; E: 6 : 27. One missed or one extra is wrong.

6 A, C, D

Tick exactly these: A: 28 : 36; C: 14 : 18; D: 42 : 54. One missed or one extra is wrong.

8 B, D

Tick exactly these: B: 28 : 32; D: 21 : 24. One missed or one extra is wrong.

10 B, D, E

Tick exactly these: B: 35 : 25; D: 14 : 10; E: 28 : 20. One missed or one extra is wrong.