

Decide whether two ratios are equivalent

NAME	DATE	SCORE / 10
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1 Which statement about the ratios 7:5 and 28:20 is true?

- ☐ Not equivalent: 21 is added to one and 15 to the other
☐ Not equivalent: the second ratio has bigger numbers
☐ Equivalent: both numbers are multiplied by 4 ☐ Equivalent: 21 is added to both numbers

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

Tick every answer that is true.

- ☐ **A** 24 : 54
☐ **B** 8 : 18
☐ **C** 12 : 27
☐ **D** 9 : 4
☐ **E** 17 : 36

3 Which statement about the ratios 6:7 and 10:11 is true?

- ☐ Not equivalent: the second ratio has bigger numbers
☐ Equivalent: 4 is added to both numbers ☐ Equivalent: both numbers are multiplied by 2
☐ Not equivalent: 4 is added to both, not multiplied

4 Which of these ratios are equivalent to 3 : 8?

Tick every answer that is true.

- ☐ **A** 18 : 48
☐ **B** 18 : 14
☐ **C** 13 : 32
☐ **D** 15 : 40
☐ **E** 9 : 24

5 Which statement about the ratios 4:7 and 20:35 is true?

- ☐ Not equivalent: the second ratio has bigger numbers
 - ☐ Equivalent: 16 is added to both numbers
 - ☐ Not equivalent: 16 is added to one and 28 to the other
 - ☐ Equivalent: both numbers are multiplied by 5
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6 Which of these ratios are equivalent to 3 : 8?

Tick every answer that is true.

- ☐ **A** 12 : 12
 - ☐ **B** 18 : 48
 - ☐ **C** 8 : 3
 - ☐ **D** 6 : 16
 - ☐ **E** 9 : 14
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7 Which statement about the ratios 4:7 and 7:10 is true?

- ☐ Equivalent: 3 is added to both numbers
 - ☐ Not equivalent: 3 is added to both, not multiplied
 - ☐ Equivalent: both numbers are multiplied by 2
 - ☐ Not equivalent: the second ratio has bigger numbers
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8 Which of these ratios are equivalent to 2 : 5?

Tick every answer that is true.

- ☐ **A** 5 : 2
 - ☐ **B** 10 : 25
 - ☐ **C** 8 : 11
 - ☐ **D** 4 : 7
 - ☐ **E** 12 : 30
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9 Which statement about the ratios 3:2 and 4:3 is true?

- ☐ Not equivalent: the second ratio has bigger numbers
- ☐ Equivalent: 1 is added to both numbers
- ☐ Equivalent: both numbers are multiplied by 2
- ☐ Not equivalent: 1 is added to both, not multiplied

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

Tick every answer that is true.

- ☐ **A** 5 : 7
- ☐ **B** 15 : 10
- ☐ **C** 13 : 11
- ☐ **D** 35 : 25
- ☐ **E** 21 : 15

Decide whether two ratios are equivalent

1 Equivalent: both numbers are multiplied by 4

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

5 Equivalent: both numbers are multiplied by 5

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

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

2 A, B, C

Tick exactly these: A: 24 : 54; B: 8 : 18; C: 12 : 27.
One missed or one extra is wrong.

4 A, D, E

Tick exactly these: A: 18 : 48; D: 15 : 40; E: 9 : 24.
One missed or one extra is wrong.

6 B, D

Tick exactly these: B: 18 : 48; D: 6 : 16. One missed or one extra is wrong.

8 B, E

Tick exactly these: B: 10 : 25; E: 12 : 30. One missed or one extra is wrong.

10 D, E

Tick exactly these: D: 35 : 25; E: 21 : 15. One missed or one extra is wrong.
