

# Decide whether two ratios are equivalent

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| NAME | DATE | SCORE<br><b>/ 10</b> |
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**1** Which statement about the ratios 7:3 and 13:9 is true?

- ☐ Equivalent: both numbers are multiplied by 2
- ☐ Not equivalent: the second ratio has bigger numbers
- ☐ Equivalent: 6 is added to both numbers
- ☐ Not equivalent: 6 is added to both, not multiplied

**2** Which of these ratios are equivalent to 5 : 7?

*Tick every answer that is true.*

- ☐ **A** 16 : 21
- ☐ **B** 30 : 13
- ☐ **C** 25 : 35
- ☐ **D** 30 : 42
- ☐ **E** 10 : 14

**3** Which statement about the ratios 7:5 and 35:25 is true?

- ☐ Equivalent: 28 is added to both numbers
- ☐ Not equivalent: the second ratio has bigger numbers
- ☐ Not equivalent: 28 is added to one and 20 to the other
- ☐ Equivalent: both numbers are multiplied by 5

**4** Which of these ratios are equivalent to 3 : 7?

*Tick every answer that is true.*

- ☐ **A** 7 : 3
- ☐ **B** 18 : 42
- ☐ **C** 5 : 9
- ☐ **D** 6 : 14
- ☐ **E** 15 : 35

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**5** Which statement about the ratios 7:4 and 17:14 is true?

- ☐ Not equivalent: 10 is added to both, not multiplied
- ☐ Not equivalent: the second ratio has bigger numbers
- ☐ Equivalent: both numbers are multiplied by 2    ☐ Equivalent: 10 is added to both numbers
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**6** Which of these ratios are equivalent to 3 : 8?

*Tick every answer that is true.*

- ☐ **A** 8 : 3
- ☐ **B** 9 : 24
- ☐ **C** 6 : 16
- ☐ **D** 12 : 32
- ☐ **E** 19 : 48
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**7** Which statement about the ratios 2:5 and 3:6 is true?

- ☐ Equivalent: both numbers are multiplied by 2
- ☐ Not equivalent: 1 is added to both, not multiplied
- ☐ Not equivalent: the second ratio has bigger numbers
- ☐ Equivalent: 1 is added to both numbers
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**8** Which of these ratios are equivalent to 5 : 2?

*Tick every answer that is true.*

- ☐ **A** 25 : 10
- ☐ **B** 10 : 4
- ☐ **C** 20 : 6
- ☐ **D** 20 : 8
- ☐ **E** 10 : 7
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**9** Which statement about the ratios 7:6 and 28:24 is true?

- ☐ Equivalent: 21 is added to both numbers
- ☐ Not equivalent: 21 is added to one and 18 to the other
- ☐ Equivalent: both numbers are multiplied by 4
- ☐ Not equivalent: the second ratio has bigger numbers

**10** Which of these ratios are equivalent to 3 : 8?

*Tick every answer that is true.*

☐ **A** 18 : 48

☐ **B** 8 : 3

☐ **C** 5 : 10

☐ **D** 9 : 24

☐ **E** 9 : 11

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**1** Not equivalent: 6 is added to both, not multiplied

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**3** Equivalent: both numbers are multiplied by 5

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**5** Not equivalent: 10 is added to both, not multiplied

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**7** Not equivalent: 1 is added to both, not multiplied

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**9** Equivalent: both numbers are multiplied by 4

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**2** C, D, E

Tick exactly these: C: 25 : 35; D: 30 : 42; E: 10 : 14.  
One missed or one extra is wrong.

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**4** B, D, E

Tick exactly these: B: 18 : 42; D: 6 : 14; E: 15 : 35.  
One missed or one extra is wrong.

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**6** B, C, D

Tick exactly these: B: 9 : 24; C: 6 : 16; D: 12 : 32.  
One missed or one extra is wrong.

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**8** A, B, D

Tick exactly these: A: 25 : 10; B: 10 : 4; D: 20 : 8.  
One missed or one extra is wrong.

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**10** A, D

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