Ratios

Name _____ Date _____

Write each ratio in its simplest form.

Common Core 6.RP.A.1, 6.RP.A.3a

Example **Write 48 : 84 in its simplest form.**

1. Find the greatest common factor of 48 and 84: 12.
2. Divide both numbers by 12: 48 ÷ 12 = 4 and 84 ÷ 12 = 7.
3. Check: 4 and 7 have no common factor except 1.

Answer: 4 : 7

1. 100 : 80 = ☐ : ☐
2. 128 : 48 = ☐ : ☐
3. 216 : 120 = ☐ : ☐
4. 80 : 180 = ☐ : ☐
5. 21 : 70 = ☐ : ☐
6. 81 : 72 = ☐ : ☐

Find the missing number.

Example **Find the missing number: 3 : 5 = ? : 35**

1. Look at the pair you know on both sides: 5 and 35.
2. Find the multiplier: 35 ÷ 5 = 7.
3. Multiply the other number by 7 too: 3 × 7 = 21.

Answer: 3 : 5 = 21 : 35

7. 48 : ☐ = 64 : 8
8. ☐ : 6 = 72 : 16
9. ☐ : 14 = 56 : 49
10. 40 : ☐ = 24 : 21
11. 56 : ☐ = 14 : 18
12. 24 : 54 = ☐ : 81

Free to share with other families. Not for resale.

Rates & units

Name _____ Date _____

Find the price of 1, or the amount for 1.

Common Core 6.RP.A.2, 6.RP.A.3b, 6.RP.A.3d

Example 4 pens for 7.80 → what does 1 pen cost?

1. Divide the total price by the number of items.
2. 7.80 ÷ 4 = 1.95 (keep two decimal places).

Answer: 1 pen costs 1.95

1. 9 lemons for 27.90 → 1 lemon: ☐
2. 9 pens for 22.95 → 1 pen: ☐
3. 9 candles for 18.00 → 1 candle: ☐
4. 174 m in 2 seconds → ☐ m per second
5. 77 L in 7 minutes → ☐ L per minute
6. 58 pages in 2 minutes → ☐ pages per minute

Convert the units.

Example 2.35 m = ? cm

1. Use the fact: 1 m = 100 cm, so multiply by 100.
2. × 100 moves every digit two places to the left: 2.35 → 235.

Answer: 235 cm

7. 11 m = ☐ cm
8. 9 km = ☐ m
9. 33 km = ☐ m
10. 2,600 m = ☐ km
11. 5.9 km = ☐ m
12. 4.6 L = ☐ mL

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Answers

Answers are in the same order as the boxes.

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1. 5 : 4
2. 8 : 3
3. 9 : 5
4. 4 : 9
5. 3 : 10
6. 9 : 8
7. 6
8. 27
9. 16
10. 35
11. 72
12. 36

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1. 3.10
2. 2.55
3. 2.00
4. 87 m per second
5. 11 L per minute
6. 29 pages per minute
7. 1,100 cm
8. 9,000 m
9. 33,000 m
10. 2.6 km
11. 5,900 m
12. 4,600 mL

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