

# Set up a proportion from a context

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|------|------|----------------------|
| NAME | DATE | SCORE<br><b>/ 10</b> |
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- 1** A bike goes 6 kilometres in 2 hours. Let  $x$  be the kilometres the bike goes in 5 hours. Write a proportion that you could solve to find  $x$ .

- 2** 4 cups of flour make 8 cookies. Which proportion finds the cookies made from 7 cups of flour?

☐  $8:4 = \square:7$   
 ☐  $7:4 = 8:\square$   
 ☐  $4:8 = \square:7$   
 ☐  $4:7 = \square:8$

- 3** 6 pens cost \$42. Let  $x$  be the cost, in dollars, of 8 pens. Write a proportion that you could solve to find  $x$ .

- 4** 6 cups of flour make 18 cookies. Which proportion finds the cookies made from 5 cups of flour?

☐  $6:5 = \square:18$   
 ☐  $6:18 = \square:5$   
 ☐  $5:6 = 18:\square$   
 ☐  $6:18 = 5:\square$

- 5** Maya reads 45 pages in 5 days. Let  $x$  be the number of pages Maya reads in 7 days. Write a proportion that you could solve to find  $x$ .

- 6** 5 pens cost \$25. Which proportion finds the cost of 2 pens?

☐  $2:5 = \square:25$   
 ☐  $2:5 = 25:\square$   
 ☐  $5:2 = \square:25$   
 ☐  $5:25 = \square:2$

**7**

3 cups of flour make 24 cookies. Let  $x$  be the number of cookies made from 9 cups of flour. Write a proportion that you could solve to find  $x$ .

**8**

Cleo reads 14 pages in 2 days. Which proportion finds the pages Cleo reads in 5 days?

☐  $2:5 = \square:14$    ☐  $14:2 = \square:5$    ☐  $5:2 = 14:\square$    ☐  $2:14 = \square:5$

**9**

Leo reads 10 pages in 2 days. Let  $x$  be the number of pages Leo reads in 5 days. Write a proportion that you could solve to find  $x$ .

**10**

A bike goes 10 kilometres in 5 hours. Which proportion finds the kilometres the bike goes in 8 hours?

☐  $10:5 = \square:8$    ☐  $5:8 = \square:10$    ☐  $10:5 = 8:\square$    ☐  $5:10 = \square:8$

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**1**  $\frac{2}{6} = \frac{5}{x}$ 

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**3**  $\frac{6}{42} = \frac{8}{x}$ 

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**5**  $\frac{5}{45} = \frac{7}{x}$ 

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**7**  $\frac{3}{24} = \frac{9}{x}$ 

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**9**  $\frac{2}{10} = \frac{5}{x}$

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**2**  $8:4 = \square:7$ 

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**4**  $6:18 = 5:\square$ 

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**6**  $2:5 = \square:25$ 

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**8**  $14:2 = \square:5$ 

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**10**  $10:5 = \square:8$