



## Perform dilations informally

- 1** Find the equivalent fraction

$$\frac{1}{5} \times \frac{3}{3} = \frac{?}{?}$$

| A             | B              |
|---------------|----------------|
| $\frac{3}{8}$ | $\frac{3}{15}$ |

- 2** Complete the equivalent fraction by finding the missing denominator

$$\frac{1}{3} \times \frac{2}{2} = \frac{2}{?}$$

|      |     |     |
|------|-----|-----|
| A 6  | B 7 | C 4 |
| D 10 | E 8 | F 2 |

- 3** Multiply these decimals, given the hint

$$1 \times 5 = 5$$

$$100 \times 0.5 = ?$$

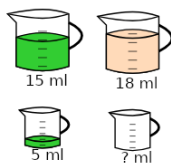
|         |          |
|---------|----------|
| A 0.5   | B 50,000 |
| C 50    | D 5      |
| E 5,000 | F 500    |

- 4** This smoothie needs 10 ml of peach for every 8 ml of lime. How much peach is needed if you have 32 ml of lime



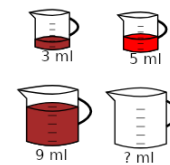
|         |         |         |         |
|---------|---------|---------|---------|
| A 45 ml | B 44 ml | C 40 ml | D 43 ml |
|---------|---------|---------|---------|

- 5** This smoothie needs 18 ml of peach for every 15 ml of lime. How much peach is needed if you have 5 ml of lime



|        |        |         |        |
|--------|--------|---------|--------|
| A 2 ml | B 6 ml | C 13 ml | D 9 ml |
|--------|--------|---------|--------|

- 6** This sundae needs 5 ml of strawberry for every 3 ml of chocolate. How much strawberry is needed if you have 9 ml of chocolate



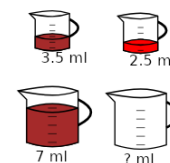
|         |         |         |         |
|---------|---------|---------|---------|
| A 20 ml | B 17 ml | C 18 ml | D 15 ml |
|---------|---------|---------|---------|

- 7** This smoothie needs 24 ml of peach for every 27 ml of lime. How much peach is needed if you have 9 ml of lime



|        |         |        |         |
|--------|---------|--------|---------|
| A 8 ml | B 15 ml | C 2 ml | D 13 ml |
|--------|---------|--------|---------|

- 8** This sundae needs 2.5 ml of strawberry for every 3.5 ml of chocolate. How much strawberry is needed if you have 7 ml of chocolate



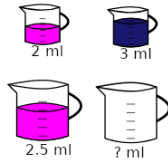
|        |           |        |        |
|--------|-----------|--------|--------|
| A 6 ml | B 4.25 ml | C 3 ml | D 5 ml |
|--------|-----------|--------|--------|



## Perform dilutions informally

**9**

This paint color needs 3 ml of blue for every 2 ml of magenta. How much blue is needed if you have 2.5 ml of magenta



- A 4 ml    B 3.75 ml    C 4.75 ml    D 5.25 ml

**10**

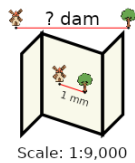
This sauce needs 1 ml of mustard for every 26.8125 ml of ketchup. How much mustard is needed if you have 8.25 ml of ketchup



- A 0.56 ml    B 0.94 ml    C 0.31 ml    D 0.69 ml

**11**

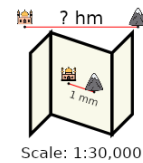
The map has a scale of 1:9,000. How many decameters would 1 mm on the map represent?



- A 0.009 dam    B 900 dam    C 0.9 dam  
D 0.09 dam    E 0.0009 dam

**12**

The map has a scale of 1:30,000. How many hectometers would 1 mm on the map represent?



- A 0.3 hm    B 0.0003 hm    C 0.03 hm  
D 30 hm    E 300 hm

**13**

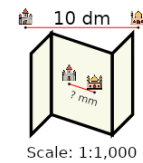
The map has a scale of 1:5,000. How many millimeters on the map would represent 5,000 mm?



- A 0.1 mm    B 10 mm    C 1 mm  
D 0.001 mm    E 1,000 mm

**14**

The map has a scale of 1:1,000. How many millimeters on the map would represent 10 dm?



- A 1 mm    B 100 mm    C 0.001 mm  
D 10 mm    E 0.01 mm