

Interpret multiplication by a fraction as scaling

NAME	DATE	SCORE / 10
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1 Without multiplying, is $\frac{4}{3} \times 773$ greater than, less than, or equal to 773?

- ☐ Greater than 773
 ☐ Less than 773
 ☐ Equal to 773

2 Without working them out, which of these products are less than 10?

Tick every answer that is true.

- ☐ **A** $10 \times \frac{1}{2}$
☐ **B** $10 \times \frac{8}{6}$
☐ **C** $10 \times \frac{6}{5}$
☐ **D** $10 \times \frac{2}{6}$

3 Without multiplying, is $963 \times \frac{1}{12}$ greater than, less than, or equal to 963?

- ☐ Greater than 963
 ☐ Less than 963
 ☐ Equal to 963

4 Without working them out, which of these products are less than 9?

Tick every answer that is true.

- ☐ **A** $9 \times \frac{5}{4}$
☐ **B** $9 \times \frac{6}{8}$
☐ **C** $9 \times \frac{2}{8}$
☐ **D** $9 \times \frac{8}{4}$

5 Without multiplying, which product is less than $\frac{1}{10}$?

- ☐ $\frac{10}{10} \times \frac{1}{10}$
 ☐ $\frac{9}{5} \times \frac{1}{10}$
 ☐ $\frac{11}{12} \times \frac{1}{10}$
 ☐ $\frac{4}{3} \times \frac{1}{10}$

6 Without working them out, which of these products are less than 9?

Tick every answer that is true.

- ☐ **A** $9 \times \frac{4}{3}$
☐ **B** $9 \times \frac{2}{2}$
☐ **C** $9 \times \frac{1}{3}$
☐ **D** $9 \times \frac{7}{8}$

7 Without multiplying, is $1 \frac{7}{11} \times \frac{1}{2}$ greater than, less than, or equal to $\frac{1}{2}$?

- ☐ Greater than $\frac{1}{2}$
 ☐ Less than $\frac{1}{2}$
 ☐ Equal to $\frac{1}{2}$

8 Without working them out, which of these products are less than 17?

Tick every answer that is true.

- ☐ **A** $17 \times \frac{1}{8}$
☐ **B** $17 \times \frac{5}{6}$
☐ **C** $17 \times \frac{13}{9}$
☐ **D** $17 \times \frac{5}{3}$

9 Without multiplying, which product is greater than 25?

- ☐ $\frac{9}{8} \times 25$
 ☐ $\frac{8}{8} \times 25$
 ☐ $\frac{1}{2} \times 25$
 ☐ $\frac{1}{3} \times 25$

10

Without working them out, which of these products are greater than 14?

Tick every answer that is true.

☐ **A** $14 \times \frac{14}{8}$

☐ **B** $14 \times \frac{2}{3}$

☐ **C** $14 \times \frac{10}{5}$

☐ **D** $14 \times \frac{7}{7}$

Interpret multiplication by a fraction as scaling

1 Greater than 773

3 Less than 963

5 $11/12 \times 1/10$

7 Greater than $1/2$

9 $9/8 \times 25$

2 **A, D**

Tick exactly these: A: $10 \times 1/2$; D: $10 \times 2/6$. One missed or one extra is wrong.

4 **B, C**

Tick exactly these: B: $9 \times 6/8$; C: $9 \times 2/8$. One missed or one extra is wrong.

6 **C, D**

Tick exactly these: C: $9 \times 1/3$; D: $9 \times 7/8$. One missed or one extra is wrong.

8 **A, B**

Tick exactly these: A: $17 \times 1/8$; B: $17 \times 5/6$. One missed or one extra is wrong.

10 **A, C**

Tick exactly these: A: $14 \times 14/8$; C: $14 \times 10/5$. One missed or one extra is wrong.