

Interpret multiplication by a fraction as scaling

NAME	DATE	SCORE / 10
------	------	------------

1 Without multiplying, is $1\frac{3}{5} \times 795$ greater than, less than, or equal to 795?

☐ Greater than 795 ☐ Less than 795 ☐ Equal to 795

2 Without working them out, which of these products are less than 20?

Tick every answer that is true.

☐ **A** $20 \times \frac{3}{2}$

☐ **B** $20 \times \frac{3}{3}$

☐ **C** $20 \times \frac{1}{5}$

☐ **D** $20 \times \frac{3}{7}$

3 Without multiplying, is $\frac{5}{8} \times \frac{1}{5}$ greater than, less than, or equal to $\frac{1}{5}$?

☐ Greater than $\frac{1}{5}$ ☐ Less than $\frac{1}{5}$ ☐ Equal to $\frac{1}{5}$

4 Without working them out, which of these products are greater than 19?

Tick every answer that is true.

☐ **A** $19 \times \frac{11}{9}$

☐ **B** $19 \times \frac{4}{3}$

☐ **C** $19 \times \frac{1}{3}$

☐ **D** $19 \times \frac{1}{5}$

5

Without multiplying, is $\frac{6}{7} \times 779$ greater than, less than, or equal to 779?

- ☐ Greater than 779
 ☐ Less than 779
 ☐ Equal to 779

6

Without working them out, which of these products are greater than 23?

Tick every answer that is true.

☐ **A** $23 \times \frac{8}{5}$

☐ **B** $23 \times \frac{10}{5}$

☐ **C** $23 \times \frac{3}{5}$

☐ **D** $23 \times \frac{6}{5}$

☐ **E** $23 \times \frac{6}{6}$

7

Without multiplying, which product is greater than 723?

- ☐ $\frac{9}{5} \times 723$
 ☐ $\frac{4}{4} \times 723$
 ☐ $\frac{1}{5} \times 723$
 ☐ $\frac{3}{5} \times 723$

8

Without working them out, which of these products are greater than 12?

Tick every answer that is true.

☐ **A** $12 \times \frac{1}{2}$

☐ **B** $12 \times \frac{5}{3}$

☐ **C** $12 \times \frac{10}{8}$

☐ **D** $12 \times \frac{5}{6}$

9

Without multiplying, which product is greater than 416?

- ☐ $\frac{4}{9} \times 416$
 ☐ $\frac{7}{10} \times 416$
 ☐ $\frac{5}{5} \times 416$
 ☐ $1 \frac{1}{6} \times 416$

10

Without working them out, which of these products are less than 12?

Tick every answer that is true.

☐ **A** $12 \times \frac{8}{4}$

☐ **B** $12 \times \frac{1}{4}$

☐ **C** $12 \times \frac{1}{3}$

☐ **D** $12 \times \frac{6}{5}$

☐ **E** $12 \times \frac{3}{4}$

Interpret multiplication by a fraction as scaling

1 Greater than 795

3 Less than $\frac{1}{5}$

5 Less than 779

7 $\frac{9}{5} \times 723$

9 $1 \frac{1}{6} \times 416$

2 **C, D**

Tick exactly these: C: $20 \times \frac{1}{5}$; D: $20 \times \frac{3}{7}$. One missed or one extra is wrong.

4 **A, B**

Tick exactly these: A: $19 \times \frac{11}{9}$; B: $19 \times \frac{4}{3}$. One missed or one extra is wrong.

6 **A, B, D**

Tick exactly these: A: $23 \times \frac{8}{5}$; B: $23 \times \frac{10}{5}$; D: $23 \times \frac{6}{5}$. One missed or one extra is wrong.

8 **B, C**

Tick exactly these: B: $12 \times \frac{5}{3}$; C: $12 \times \frac{10}{8}$. One missed or one extra is wrong.

10 **B, C, E**

Tick exactly these: B: $12 \times \frac{1}{4}$; C: $12 \times \frac{1}{3}$; E: $12 \times \frac{3}{4}$. One missed or one extra is wrong.