

Interpret multiplication by a fraction as scaling

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

1 Without multiplying, which product is greater than $\frac{1}{2}$?

☐ $\frac{2}{5} \times \frac{1}{2}$
 ☐ $\frac{2}{2} \times \frac{1}{2}$
 ☐ $\frac{3}{2} \times \frac{1}{2}$
 ☐ $\frac{7}{11} \times \frac{1}{2}$

2 Without working them out, which of these products are greater than 22?

Tick every answer that is true.

- ☐ **A** $22 \times \frac{5}{3}$
☐ **B** $22 \times \frac{2}{4}$
☐ **C** $22 \times \frac{11}{6}$
☐ **D** $22 \times \frac{6}{3}$
☐ **E** $22 \times \frac{2}{6}$

3 Without multiplying, which product is greater than 558?

☐ $1 \frac{1}{8} \times 558$
 ☐ $\frac{7}{10} \times 558$
 ☐ $\frac{5}{5} \times 558$
 ☐ $\frac{1}{4} \times 558$

4

Without working them out, which of these products are greater than 11?

Tick every answer that is true.

☐ **A** $11 \times \frac{2}{3}$

☐ **B** $11 \times \frac{3}{3}$

☐ **C** $11 \times \frac{4}{2}$

☐ **D** $11 \times \frac{7}{4}$

5

Without multiplying, is $\frac{3}{4} \times \frac{1}{7}$ greater than, less than, or equal to $\frac{3}{4}$?

☐ Greater than $\frac{3}{4}$ ☐ Less than $\frac{3}{4}$ ☐ Equal to $\frac{3}{4}$

6

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

Tick every answer that is true.

☐ **A** $17 \times \frac{3}{9}$

☐ **B** $17 \times \frac{10}{9}$

☐ **C** $17 \times \frac{5}{9}$

☐ **D** $17 \times \frac{15}{9}$

☐ **E** $17 \times \frac{1}{2}$

7

Without multiplying, is $\frac{2}{2} \times 547$ greater than, less than, or equal to 547?

☐ Greater than 547 ☐ Less than 547 ☐ Equal to 547

8

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

Tick every answer that is true.

☐ **A** $17 \times \frac{5}{4}$

☐ **B** $17 \times \frac{12}{7}$

☐ **C** $17 \times \frac{16}{9}$

☐ **D** $17 \times \frac{2}{2}$

☐ **E** $17 \times \frac{1}{7}$

9

Without multiplying, is $38 \times \frac{2}{3}$ greater than, less than, or equal to 38?

☐ Greater than 38 ☐ Less than 38 ☐ Equal to 38

10

Without working them out, which of these products are greater than 15?

Tick every answer that is true.

☐ **A** $15 \times \frac{3}{7}$

☐ **B** $15 \times \frac{10}{7}$

☐ **C** $15 \times \frac{17}{9}$

☐ **D** $15 \times \frac{6}{3}$

☐ **E** $15 \times \frac{2}{3}$

Interpret multiplication by a fraction as scaling

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

3 $1 \frac{1}{8} \times 558$

5 Less than $\frac{3}{4}$

7 Equal to 547

9 Less than 38

2 **A, C, D**

Tick exactly these: A: $22 \times \frac{5}{3}$; C: $22 \times \frac{11}{6}$; D: $22 \times \frac{6}{3}$. One missed or one extra is wrong.

4 **C, D**

Tick exactly these: C: $11 \times \frac{4}{2}$; D: $11 \times \frac{7}{4}$. One missed or one extra is wrong.

6 **A, C, E**

Tick exactly these: A: $17 \times \frac{3}{9}$; C: $17 \times \frac{5}{9}$; E: $17 \times \frac{1}{2}$. One missed or one extra is wrong.

8 **A, B, C**

Tick exactly these: A: $17 \times \frac{5}{4}$; B: $17 \times \frac{12}{7}$; C: $17 \times \frac{16}{9}$. One missed or one extra is wrong.

10 **B, C, D**

Tick exactly these: B: $15 \times \frac{10}{7}$; C: $15 \times \frac{17}{9}$; D: $15 \times \frac{6}{3}$. One missed or one extra is wrong.