

Name: Class:

Estimate products of fractions and whole numbers

Steps for estimating the product of a fraction and whole number.

a- $15 \times \frac{5}{6}$

d- $625 \times \frac{6}{7}$

g- $25 \times \frac{1}{4}$

b- $998 \times \frac{19}{20}$

e- $98,260 \times \frac{1}{3}$

h- $172 \times \frac{1}{3}$

c- $754 \times 221 \frac{1}{2}$

f- $492 \times \frac{1}{2}$

i- $2,560 \times \frac{3}{4}$

Estimate the following product and write the correct answer.

1. $77 \times \frac{4}{6} =$

2. $92 \times \frac{1}{2} =$

3. $65 \times \frac{15}{17} =$

4. $33 \times \frac{3}{6} =$

5. $45 \times \frac{6}{8} =$

6. $22 \times \frac{5}{9} =$

 Estimate and choose the sign which makes the statement true $>$, $<$ or $=$

$757 \times \frac{1}{2}$ 767

$10 \times \frac{1}{3}$ $9 \times \frac{1}{2}$

9 $8 \times \frac{7}{8}$

$69 \times \frac{1}{2}$ $69 \times \frac{4}{9}$

$410 \times \frac{17}{5}$ 250

81 $79 \times \frac{3}{4}$

Name: Class:

Estimate products of fractions and whole numbers

Steps for estimating the product of a fraction and whole number.

Round the whole number to a number compatible to the denominator.

a- $15 \times \frac{5}{6} = 18 \times \frac{5}{6}$

Then multiply to find the product.

$15 \times \frac{5}{6} = 18 \times \frac{5}{6} = \frac{18}{1} \times \frac{5}{6} = 5 \times 3 = 15$

Therefore, the estimated product of $15 \times \frac{5}{6}$ is equal to 15.

Estimate the following product and write the correct answer.

1. $77 \times \frac{4}{6} = 52$

2. $92 \times \frac{1}{2} = 46$

3. $65 \times \frac{15}{17} = 60$

4. $33 \times \frac{3}{6} = 17$

5. $45 \times \frac{6}{8} = 16$

6. $22 \times \frac{5}{9} = 15$

Estimate and choose the sign which makes the statement true $>$, $<$ or $=$

$757 \times \frac{1}{2} < 767$

$10 \times \frac{1}{3} < 9 \times \frac{1}{2}$

$9 > 8 \times \frac{7}{8}$

$69 \times \frac{1}{2} > 69 \times \frac{4}{9}$

$410 \times \frac{17}{5} > 250$

$81 > 79 \times \frac{3}{4}$