

Name: Class:

Estimate products of fractions and whole numbers

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

1 convert the whole number to the nearest ten

$$15 \times \frac{5}{6} =$$

► 15 to the nearest ten is 20.

2 convert the fraction to a whole number

$$\begin{array}{r} 0.8333 \\ 6 \overline{) 5.0000} \\ \underline{- 48} \\ 20 \\ \underline{- 18} \\ 20 \\ \underline{- 18} \\ 20 \\ \underline{- 18} \\ 2 \end{array}$$

$$\frac{5}{6} = 0.8333$$

► 0.8333 to a whole number is 1.

3 Multiply the result of each conversion.

$$20 \times 1 = 20$$

$$\text{Therefore, } 15 \times \frac{5}{6} = 20$$



Estimate the following product and write the correct answer.

1. $70 \times \frac{3}{5} =$

2. $53 \times \frac{11}{12} =$

3. $9 \times \frac{6}{7} =$

4. $13 \times \frac{7}{8} =$

5. $18 \times \frac{6}{11} =$

6. $50 \times \frac{21}{25} =$

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

$$11 \times \frac{9}{15} \quad \square \quad 50$$

$$592 \times \frac{2}{5} \quad \square \quad 300 \times \frac{1}{6}$$

$$199 \quad \square \quad 199 \times \frac{7}{8}$$

$$429 \times \frac{2}{9} \quad \square \quad 60 \times \frac{3}{4}$$

$$29 \times \frac{1}{2} \quad \square \quad 25 \times \frac{1}{2}$$

$$14 \times \frac{11}{15} \quad \square \quad 9 \times \frac{15}{21}$$

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1 convert the whole number to the nearest ten

$$15 \times \frac{5}{6} =$$

► 15 to the nearest ten is 20.

2 convert the fraction to a whole number

$$\begin{array}{r} 0.8\overline{333} \\ 6 \overline{) 5.0000} \\ \underline{-48} \\ 20 \\ \underline{-18} \\ 20 \\ \underline{-18} \\ 20 \\ \underline{-18} \\ 2 \end{array}$$

$$\frac{5}{6} = 0.8\overline{333}$$

► 0.8333 to a whole number is 1.

3 Multiply the result of each conversion.

$$20 \times 1 = 20$$

$$\text{Therefore, } 15 \times \frac{5}{6} = 20$$



Estimate the following product and write the correct answer.

1. $70 \times \frac{3}{5} = 70$

2. $53 \times \frac{11}{12} = 50$

3. $9 \times \frac{6}{7} = 10$

4. $13 \times \frac{7}{8} = 10$

5. $18 \times \frac{6}{11} = 20$

6. $50 \times \frac{21}{25} = 50$

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

$$11 \times \frac{9}{15} < 50$$

$$592 \times \frac{2}{5} = 300 \times \frac{1}{6}$$

$$199 = 199 \times \frac{7}{8}$$

$$429 \times \frac{2}{9} > 60 \times \frac{3}{4}$$

$$29 \times \frac{1}{2} > 25 \times \frac{1}{2}$$

$$14 \times \frac{11}{15} > 9 \times \frac{15}{21}$$