

# Master Maths 8 Worksheet 10

## Fractions - Multiplication and Division

# 10

*Name:* \_\_\_\_\_

1. Solve these problems.

(a)  $\frac{3}{5} \times \frac{1}{2}$       (b)  $\frac{6}{7} \times \frac{3}{5}$       (c)  $\frac{5}{9} \times \frac{7}{11}$




2. Cancel the following problems to their simplest form before solving.

(a)  $\frac{8}{9} \times \frac{3}{5}$       (b)  $\frac{8}{15} \times \frac{5}{16}$       (c)  $\frac{10}{27} \times \frac{18}{25}$




3. Convert the following mixed numbers to improper fractions, simplify then solve. Write answers in their simplest form and as mixed numbers (when appropriate).

(a)  $4\frac{4}{5} \times 1\frac{9}{16}$       (b)  $4\frac{4}{9} \times 1\frac{5}{16}$       (c)  $4\frac{1}{6} \times 2\frac{7}{10}$




4. Find the following:

(a)  $\frac{2}{3}$  of 27      (b)  $\frac{5}{6}$  of 36      (c)  $\frac{3}{8}$  of 56




(d)  $\frac{4}{9}$  of  $\frac{15}{16}$       (e)  $\frac{3}{8}$  of  $\frac{14}{15}$       (f)  $\frac{7}{9}$  of  $\frac{27}{49}$




(g)  $\frac{3}{4}$  of  $4\frac{7}{9}$

5. Find the following:

(a)  $\frac{2}{3}$  of 15 m      (b)  $\frac{5}{6}$  of \$42      (c)  $\frac{3}{8}$  of 96 kg




6. Solve these problems writing answers as mixed numbers in their simplest form (when appropriate).

(a)  $\frac{6}{11} \div \frac{4}{5}$       (b)  $\frac{10}{21} \div \frac{5}{14}$       (c)  $\frac{5}{9} \div \frac{10}{21}$




(d)  $8 \div 2\frac{1}{2}$       (e)  $3\frac{2}{5} \div 4\frac{6}{7}$       (f)  $6\frac{2}{9} \div 7$




7. (a) How many 7's are in 64?

(b) How many 7's are in 4?

(c) How many  $\frac{3}{4}$ 's are in 15?

(d) How many 15's are in  $\frac{3}{4}$ ?