

## Determining if a quantity is increased or decreased when multiplied by a fraction: Worksheet 6.2

Name ..... Date ..... Score .....

1. Multiply  $3 \times \frac{1}{5}$  and determine if the number is decreased/increased/same on multiplying by the fraction.
2. Multiply  $5 \times \frac{3}{3}$  and determine if the number is decreased/increased/same on multiplying by the fraction.
3. Multiply  $5 \times \frac{5}{2}$  and determine if the number is decreased/increased/same on multiplying by the fraction.
4. Multiply  $4 \times \frac{2}{5}$  and determine if the number is decreased/increased/same on multiplying by the fraction.
5. Multiply  $4 \times \frac{5}{5}$  and determine if the number is decreased/increased/same on multiplying by the fraction.
6. Multiply  $3 \times \frac{5}{3}$  and determine if the number is decreased/increased/same on multiplying by the fraction.
7. Multiply  $3 \times \frac{1}{4}$  and determine if the number is decreased/increased/same on multiplying by the fraction.
8. Multiply  $5 \times \frac{6}{6}$  and determine if the number is decreased/increased/same on multiplying by the fraction.
9. Multiply  $4 \times \frac{4}{3}$  and determine if the number is decreased/increased/same on multiplying by the fraction.
10. Multiply  $6 \times \frac{2}{7}$  and determine if the number is decreased/increased/same on multiplying by the fraction.



## Solutions: Worksheet 6.2

1. The number is decreased on being multiplied by the fraction as  $\frac{3}{5} < 3$
2. The number remains same on being multiplied by the fraction as  $\frac{3}{3} = 1$   
and  $5 \times 1 = 5$
3. The number is increased on being multiplied by the fraction as  $\frac{25}{2} > 5$
4. The number is decreased on being multiplied by the fraction as  $\frac{8}{5} < 4$
5. The number remains same on being multiplied by the fraction as  $\frac{5}{5} = 1$   
and  $4 \times 1 = 4$
6. The number is increased on being multiplied by the fraction as  $5 > 3$
7. The number is decreased on being multiplied by the fraction as  $\frac{3}{4} < 3$
8. The number remains same on being multiplied by the fraction as  $\frac{6}{6} = 1$   
and  $5 \times 1 = 5$
9. The number is increased on being multiplied by the fraction as  $\frac{16}{3} > 4$
10. The number is decreased on being multiplied by the fraction as  $\frac{12}{7} < 6$

