

G5-M2-Lesson 17

1. Estimate the quotient for the following problems.

a. $612 \div 33$

$\approx 600 \div 30$

$= 20$

I look at the divisor, 33, and round it to the nearest ten. $33 \approx 30$

I need to think of a multiple of 30 that's closest to 612. 600 works.

I use the simple fact, $6 \div 3 = 2$, to help me solve $600 \div 30 = 20$.

b. $735 \div 78$

$\approx 720 \div 80$

$= 9$

I look at the divisor, 78, and round it to the nearest ten. $78 \approx 80$

I'll think of a multiple of 80 that is close to 735. 720 is the closest multiple.

I use the simple fact, $72 \div 8 = 9$, to help me solve $720 \div 80 = 9$.

c. $821 \div 99$

$\approx 800 \div 100$

$= 8$

I look at the divisor, 99, and round to the nearest ten. $99 \approx 100$

I can think of a multiple of 100 that is close to 821. 800 is the closest multiple.

I can use the simple fact, $8 \div 1 = 8$, to help solve $800 \div 100 = 8$.

2. A baker spent \$989 buying 48 pounds of nuts. About how much does each pound of nuts cost?

To find the cost of 1 pound of nuts, I'll use division. $989 \div 48$

$$989 \div 48$$

I look at the divisor, 48, and round it to the nearest ten. $48 \approx 50$

$$\approx 1,000 \div 50$$

I need to think of a multiple of 50 that's close to 989. 1,000 is closest.

$$= 20$$

I can use the simple fact, $10 \div 5 = 2$, to help me solve $1,000 \div 50 = 20$.

Each pound of nuts costs about \$20.