G5-M2-Lesson 18

1. Estimate the quotients for the following problems.

I look at the divisor, 23, and round it to the nearest ten. $23 \approx 20$

a. $3,782 \div 23$

$\approx 4,000 \div 20$

I need to think of a multiple of 20 that's closest to 3,782. 4,000 is closest.

$= 200$

I use the simple fact, $4 \div 2 = 2$, and unit form to help me solve.
4 thousands ÷ 2 tens = 2 hundreds

I look at the divisor, 43, and round to the nearest ten. $43 \approx 40$

b. $2,519 \div 43$

$\approx 2,400 \div 40$

I need to think of a multiple of 40 that's close to 2,519. 2,400 is closest.

$= 60$

I can use the simple fact, $24 \div 4 = 6$, to help me solve $2,400 \div 40 = 60$.

I look at the divisor, 94, and round it to the nearest ten. $94 \approx 90$

c. $4,621 \div 94$

$\approx 4,500 \div 90$

4,500 is close to 4,621 and is a multiple of 90.

$= 50$

I can use the simple fact, $45 \div 9 = 5$, to help me solve $4,500 \div 90 = 50$.

     Lesson 18:   Use basic facts to approximate quotients with two-digit divisors.

EUREKA MATH

2. Meilin has saved $4,825. If she is paid $68 an hour, about how many hours did she work?

> I'll use division to find the number of hours that Meilin worked to save $4,825.

> The divisor, 68, rounds to 70. $68 \approx 70$

$4,825 \div 68$

$\approx 4,900 \div 70$

> I need to find a multiple of 70 that's closest to 4,825. 4,900 is closest.

$= 70$

> I can use the basic fact, $49 \div 7 = 7$, to help me solve $4,900 \div 70 = 70$.

Meilin worked about 70 hours.