

M2L19. Dividing by multiples of 10

Application Problem

The farmer can make 30 packs of seeds

Seeds

360		
12	12	...
2	2	12?

 $360 \div 12 =$

$$\begin{array}{r} 30 \\ 12 \overline{) 360} \\ \underline{36} \\ 00 \\ \underline{- 0} \\ 0 \end{array}$$

$$\begin{array}{l} 12, 24, 36 \\ 36 \times 10 = 360 \\ 30 \end{array}$$

Fluency:

$$908 \div 28 \approx \underline{900} \div \underline{30} = 30$$

$$152 \div 33 \approx \underline{150} \div \underline{30} = 5$$

$$398 \div 98 \approx \underline{400} \div \underline{100} = 4$$

$$\underline{7272} \div \underline{81} \approx \underline{7200} \div \underline{80} = 90$$

$$8, 16, 24, 32, 40, 48, 56, 64, 72$$

7200

MZL19: Dividing by Multiples of 10

$$70 \div 30 = \underline{\quad}$$

Dividend \downarrow Divisor \downarrow Quotient

$70 \div 30 =$

Estimate	Solve	Check
$70 \div 30 = 2$ $60 \div 30 = 2$ $70 : 30, \boxed{60}, 90$ $6 \div 3 = 2$	$2 \text{ r } 10$ $30 \overline{)70}$ $\underline{-60}$ 10	$30 - \text{Divisor}$ $\times \quad 2 - \text{Quotient}$ $\hline 60$ $+ 10 - \text{Remainder}$ $70 - \text{Dividend}$

$430 \div 60 =$

Estimate	Solve	Check
$\rightarrow 420 \div 60 = 7$ $420 : 6, 12, 18, 24$ $420 \quad 30, 36, \boxed{42}, 48$	$7 \text{ r } 10$ $60 \overline{)430}$ $\underline{-420}$ 10	60 $\times \quad 7$ $\hline 420$ $+ 10$ 430

$$572 \div 90$$

Estimate

$$540 \div 90 = 6$$

90

180

270

360

450

* 540

630

Solve

$$\begin{array}{r} \text{6r32} \\ 90 \overline{) 572} \\ \underline{-540} \\ 32 \end{array}$$

Check

$$\begin{array}{r} 90 \\ \times 6 \\ \hline 540 \\ + 32 \\ \hline 572 \end{array}$$

$$80 \div 30 =$$

Estimate

$$\frac{60}{80} \div 30 = 2$$

80: 30, 60, 90

Solve

$$\begin{array}{r} 2 \text{r} 20 \\ 30 \overline{) 80} \\ \underline{-60} \\ 20 \end{array}$$

Check

$$\begin{array}{r} 30 \\ \times 2 \\ \hline 60 \\ + 20 \\ \hline 80 \end{array}$$

$$643 \div 80$$

E

$$640 \div 80 = 8$$

643: 80 160, 240
320, 400, 480
560, 640, 720

S

$$\begin{array}{r} 8 \text{r} 3 \\ 80 \overline{) 643} \\ \underline{640} \\ 3 \end{array}$$

C

$$\begin{array}{r} 80 \\ \times 8 \\ \hline 640 \\ + 3 \\ \hline 643 \end{array}$$

Name _____

Date _____

1. Divide, and then check. The first problem is done for you.

a. $41 \div 30$

$$\begin{array}{r} 1 \text{ R } 11 \\ 30 \overline{) 41} \\ \underline{- 30} \\ 11 \end{array}$$

Check:

$$\begin{aligned} 30 \times 1 &= 30 \\ 30 + 11 &= 41 \end{aligned}$$

b. $80 \div 30$

c. $71 \div 50$

E
 $50 \div 50 = 1$
 $71 : \boxed{50}, 100$

S
 $50 \overline{) 71} \text{ r } 21$

C
 $\begin{array}{r} 50 \\ \times 1 \\ \hline 50 \\ + 21 \\ \hline 71 \checkmark \end{array}$

d. $270 \div 30$

E
 $270 \div 30 = 9$
 $270 : 30, 60, 90, 120, 150, 180, 210, 240, 270$

S
 $30 \overline{) 270} \text{ r } 0$

C
 $\begin{array}{r} 30 \\ \times 9 \\ \hline 270 \end{array}$

e. $643 \div 80$

f. $215 \div 90$