

# Study Link 4.1

① 57 divided by 3 equals 19

How many 3s to 30 = 10  
3s to 27 = 9

friendly parts

19 Answer

② 96 divided by 8 equals 12

How many 8s to 80 = 10  
8s to 16 = 2

Friendly parts

12 Answer

③  $\frac{2,000}{4} = 500$  About mi

④  $30 \div 6 = 5$  lbs on the moon

## Practice #9

⑤  $\begin{array}{r} 1,803 \\ - 925 \\ \hline 878 \end{array}$

$1,803 - 925 = 878$   
 $1,803 - 878 = 925$   
 $925 + 878 = 1,803$   
 $878 + 925 = 1,803$

$$\begin{array}{r} \textcircled{6} \quad 498 \\ + 377 \\ \hline 885 \end{array}$$

$$498 + 377 = 885$$

$$377 + 498 = 885$$

$$885 - 377 = 498$$

$$885 - 498 = 377$$

# Study Link 4.2

①

$$\begin{array}{r}
 7 \overline{) 237} \\
 - 70 \\
 \hline
 0x'67 \\
 70 \\
 \hline
 97 \\
 - 70 \\
 \hline
 27 \\
 27 \\
 \hline
 0
 \end{array}$$

Partial Quotients

10	(7 × 10)
10	(7 × 10)
10	(7 × 10)
3	(7 × 3)

②

$$\begin{array}{r}
 6 \overline{) 66} \\
 - 60 \\
 \hline
 x'06 \\
 - 60 \\
 \hline
 46 \\
 - 42 \\
 \hline
 4
 \end{array}$$

Partial Quotients

10	(6 × 10)
10	(6 × 10)
7	(6 × 7)
27 R 4	

There are other ways to solve. These are just suggestions.

Answer

③

$$\begin{array}{r} 5 \overline{) 214} \\ - 100 \\ \hline 114 \\ - 100 \\ \hline 14 \\ - 10 \\ \hline 4 \end{array}$$

Partial Quotients

$$\begin{array}{l} 20 \quad (20 \times 5) \\ 20 \quad (20 \times 5) \\ 2 \quad (2 \times 5) \\ \hline \boxed{42 R 4} \text{ Answer} \end{array}$$

④

$$\begin{array}{r} 15 \overline{) 485} \\ - 300 \\ \hline 185 \\ - 150 \\ \hline 35 \\ - 30 \\ \hline 5 \end{array}$$

Partial Quotients

$$\begin{array}{l} 20 \quad (20 \times 15) \\ 10 \quad (10 \times 15) \\ 2 \quad (2 \times 15) \\ \hline \boxed{32 R 5} \text{ Answer} \end{array}$$

⑤

$$\begin{array}{r} 17 \overline{) 3408} \\ - 170 \\ \hline 1238 \\ - 170 \\ \hline 68 \\ 34 \\ \hline 34 \\ - 34 \\ \hline \end{array}$$

$$10 (10 \times 17)$$

$$10 (10 \times 17)$$

$$2 (2 \times 17)$$

$$2 (2 \times 17)$$

24 Answer

Practice

⑥

$$\begin{array}{r} 3817 \\ + 168 \\ \hline 3985 \end{array}$$

$$\begin{array}{r} 715 \\ 3985 \\ - 168 \\ \hline 3817 \end{array}$$

or

$$\begin{array}{r} 715 \\ 3985 \\ - 3817 \\ \hline 168 \end{array}$$

⑦

$$\begin{array}{r} 52,817 \\ - 281 \\ \hline 52,236 \end{array}$$

$$\begin{array}{r} 52,236 \\ + 281 \\ \hline 52,517 \end{array}$$

$$\begin{array}{r} 411 \\ 52,817 \\ - 52,236 \\ \hline 281 \end{array}$$

# Study Link 4.3

- ① a) About 1 mile (The distance is 2 inches).  
b) About  $1\frac{1}{2}$  miles (The distance is 3 inches)
- ② a) About  $3\frac{3}{4}$  inches  
b)  $\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{3}{4} = 1\frac{7}{8}$  miles

## Practice

③ 
$$\begin{array}{r} 28\cancel{16} \\ - 188 \\ \hline 188 \end{array}$$

$$\begin{array}{r} 11 \\ 188 \\ + 188 \\ \hline 376 \end{array}$$

④ 
$$\begin{array}{r} 3,997 \\ + 151 \\ \hline 4,148 \end{array}$$

$$\begin{array}{r} 3\cancel{0}14 \\ 4,148 \\ - 151 \\ \hline 3,997 \end{array}$$

$$\begin{array}{r} 3\cancel{0}14 \\ 4,148 \\ - 3,997 \\ \hline 151 \end{array}$$

# Study Link 4.4

①

$$\begin{array}{r} 9 \overline{) 639} \\ - 630 \\ \hline 9 \\ - 9 \\ \hline 0 \end{array}$$

Partial Quotients

70	(9 × 70)
1	(9 × 1)
71	Answer

These are suggested solutions.

②

$$\begin{array}{r} 18 \overline{) 9154} \\ - 180 \\ \hline 774 \\ - 360 \\ \hline 3414 \\ - 360 \\ \hline 54 \\ - 54 \\ \hline 0 \end{array}$$

Partial Quotients

10	(18 × 10)
20	(18 × 20)
20	(18 × 20)
3	(18 × 3)
53	Answer

③

$$\begin{array}{r} 24 \overline{) 1990} \\ - 240 \\ \hline 1750 \\ - 720 \\ \hline 230 \\ - 24 \\ \hline 6 \end{array}$$

Partial Quotients

10	(24 × 10)
30	(24 × 30)
1	(24 × 1)

41 R 6 Answer

④

$$\begin{array}{r} 37 \overline{) 972} \\ 370 \\ \hline 5602 \\ 370 \\ \hline 1232 \\ 185 \\ \hline 47 \\ 37 \\ \hline 10 \end{array}$$

Partial Quotients

10	(37 × 10)
10	(37 × 10)
5	(37 × 5)
1	(37 × 1)

26 R 10 Answer



⑤

$$\begin{array}{r}
 61497 \\
 - 360 \\
 \hline
 137 \\
 120 \\
 \hline
 17 \\
 12 \\
 \hline
 5
 \end{array}$$

Partial Quotients

$$\begin{array}{l}
 60 \quad (6 \times 60) \\
 20 \quad (6 \times 20) \\
 2 \quad (6 \times 2) \\
 \hline
 82 \text{ R } 5
 \end{array}$$

Answer →

Will need another

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⑥

$$\begin{array}{r}
 \overset{1}{2}, \overset{1}{7}46 \\
 + \quad 68 \\
 \hline
 2,814
 \end{array}$$

$$\begin{array}{r}
 \overset{7}{2}8\overset{14}{4} \\
 - \quad 68 \\
 \hline
 2,746
 \end{array}$$

$$\begin{array}{r}
 \overset{7}{2}8\overset{14}{4} \\
 - 2,746 \\
 \hline
 68
 \end{array}$$

⑦

$$\begin{array}{r}
 \overset{3}{3}, \overset{15}{4}61 \\
 - 165 \\
 \hline
 3,296
 \end{array}$$

$$\begin{array}{r}
 \overset{3}{3}, \overset{1}{2}9\overset{1}{6} \\
 + 165 \\
 \hline
 3,461
 \end{array}$$

$$\begin{array}{r}
 \overset{3}{3}, \overset{15}{4}61 \\
 - 3,296 \\
 \hline
 165
 \end{array}$$

# Study Link 4.5

①

$$\begin{array}{r}
 13.1 \\
 6 \overline{) 78.6} \\
 \underline{-6} \phantom{0} \\
 18 \\
 \underline{-18} \\
 06 \\
 \underline{-06} \\
 0
 \end{array}$$

(10s)  
 $60 \div 6 = 10$

Change #s to make problem solvable

ignore until complete

or

$$\begin{array}{r}
 6 \overline{) 78.6} \\
 \underline{600} \\
 186 \\
 \underline{180} \\
 6 \\
 \underline{6} \\
 0
 \end{array}$$

100 (6x100)

30 (6x30)

6

6

0

1 (6x1)  
 13.1

Place decimal back in.

②

$$\begin{array}{r}
 129 \\
 3 \overline{) 387} \\
 \underline{-3} \phantom{0} \\
 08 \\
 \underline{-6} \\
 27 \\
 \underline{27} \\
 0
 \end{array}$$

(100s)  
 $300 \div 3 = 100$

or

$$\begin{array}{r}
 3 \overline{) 387} \\
 \underline{300} \\
 87 \\
 \underline{60} \\
 27 \\
 \underline{27} \\
 0
 \end{array}$$

100 (3x100)

20 (3x20)

9 (3x9)

129  
 Answer

③  $\$3.69$

$$\begin{array}{r} 8 \overline{) 29.52} \\ -24 \downarrow \\ \hline 45 \downarrow \\ -48 \downarrow \\ \hline 72 \end{array}$$

$30 \div 10 = 3$

①s

or

$8 \overline{) 29.52}$	
$24 \ 00$	$300 (8 \times 300)$
$45 \ 52$	
$480$	$60 (8 \times 60)$
$72$	
$72$	$9 (8 \times 9)$
$0$	

3.69  
Place decimal back in  
Answer

④  $23$

$$\begin{array}{r} 43 \overline{) 989} \\ -86 \\ \hline 129 \\ -129 \\ \hline 0 \end{array}$$

$800 \div 40 = 20$

①0s

or

$43 \overline{) 989}$	
$430$	$10 (43 \times 10)$
$559$	
$430$	$10 (43 \times 10)$
$129$	
$129$	$3 (43 \times 3)$
$0$	

23  
Answer

# Study Link 4.6

①

$$\begin{array}{r}
 6.25 \\
 8 \overline{) 50.00} \\
 \underline{-48} \phantom{0} \\
 20 \\
 \underline{-16} \\
 40 \\
 \underline{40} \\
 0
 \end{array}$$

or

$$\begin{array}{r|l}
 8 \overline{) 50.00} & \\
 \underline{48} & 600 \text{ (} 8 \times 600 \text{)} \\
 20 & \\
 \underline{16} & 20 \text{ (} 8 \times 20 \text{)} \\
 40 & \\
 \underline{40} & 5 \text{ (} 8 \times 5 \text{)} \\
 0 & \\
 \hline
 & 6.25
 \end{array}$$

Place back in.

Report it as a decimal because it is money. You also need an exact answer.

②

$$\begin{array}{r}
 7 \\
 8 \overline{) 56} \\
 \underline{56} \\
 4
 \end{array}$$

Report it by leaving off the remainder  
Lynn only has so much money

Practice

③

$$\begin{array}{r}
 15 \\
 2 \overline{) 31} \text{ R}1 \text{ or } 15\frac{1}{2} \\
 \underline{-2} \\
 11 \\
 \underline{10} \\
 1
 \end{array}$$

④

$$\begin{array}{r}
 23 \\
 629 \\
 84 \\
 2 \overline{) 516} \\
 \underline{50} \\
 320 \\
 \underline{503} \\
 20 \\
 \underline{20} \\
 0
 \end{array}$$

or

4	1	7	8
5	8	6	2
2	4	8	3
8	3	6	4

## Study Link 4.7

① 7 days in a week  $7^2 = 7 \times 7 = 49$

② of means multiply  $\frac{1}{10} \times \frac{100}{1} = \frac{100}{10} = 10$

$$10 \times 78 = 780$$

③ 12 is the largest sum because  
 $6 + 6 = 12$

$$\begin{array}{r} 598 \\ + 12 \\ \hline 610 \end{array}$$

④ ⑪ Answers will vary

Practice

⑫

$$\begin{array}{r} 3,817 \\ + 168 \\ \hline 3,985 \end{array}$$

⑬

$$\begin{array}{r} 52, \overset{4}{\cancel{5}}17 \\ - 281 \\ \hline 52,236 \end{array}$$