

Study Link 2.1

- ① About 200 miles
- ② About $200\frac{1}{2}$ miles
- ③
- ④
- ⑤ more

Answers will vary based on the classroom average.

Practice

$$\begin{array}{r} \textcircled{6} \quad 448 \\ \times 15 \\ \hline 2240 \\ 480 \\ \hline 720 \end{array}$$

or

$$\begin{array}{r} 48 \\ 7 \overline{) 204} \\ \underline{20} \\ 40 \\ \underline{36} \\ 40 \\ \underline{36} \\ 40 \\ \underline{36} \\ 40 \end{array}$$

$$\begin{array}{r} \textcircled{7} \quad 24,029 \\ + 26,840 \\ + 39,492 \\ \hline 90,361 \end{array}$$

$$\begin{array}{r} \textcircled{8} \quad 12 \\ 3 \overline{) 36} \\ \underline{3} \\ 06 \\ \underline{06} \\ 0 \end{array}$$

$$\begin{array}{r} \textcircled{9} \quad 35 \\ - 17 \\ \hline 18 \end{array}$$

Study Link 2.2

① $261 + 571 = 832$

② 7, 20, 30

③ $19 + 23 = 42$

④ $533 + 125 = 658$

⑤ $88.2 + 17.5 = 105.7$ The tenths
 $85.2 + 20.5 = 105.7$ place equals

⑥
$$\begin{array}{r} 3804 \\ + 768 \\ \hline 4572 \end{array}$$

⑦
$$\begin{array}{r} 2.83 \\ + 1.57 \\ \hline 4.40 \end{array}$$

⑧
$$\begin{array}{r} 7.33 \\ 148 \\ + 65 \\ \hline 246 \end{array}$$

⑨
$$\begin{array}{r} 1.055 \\ + 0.863 \\ \hline 1.918 \end{array}$$

Practice

⑩
$$\begin{array}{r} 613 \\ - 26 \\ \hline 47 \end{array}$$

⑪
$$\begin{array}{r} 727 \\ - 519 \\ \hline 208 \end{array}$$

⑫ $27 \div 9 = 3$

⑬
$$\begin{array}{r} 8 R2 \\ 4 \overline{)34} \\ \underline{32} \\ 2 \end{array} \quad \text{or} \quad 8\frac{2}{4} = \frac{1}{2}$$

Study Link

Trade 1st Method

$$\begin{array}{r} \textcircled{1} \quad 5 \overline{) 17} \\ \underline{16} \quad 7 \\ - 39 \\ \hline 218 \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad 2 \overline{) 3} \quad 10 \overline{) 8} \\ \underline{\$ 34} \quad \underline{6} \quad 8 \\ - \underline{\$ 15} \quad \underline{7} \quad 5 \\ \hline 118.913 \end{array}$$

Partial-differences Method

$$\begin{array}{r} \textcircled{3} \quad 895 \\ - 327 \\ \hline \end{array}$$

$800 - 300 = 500$ subtract the hundreds

$90 - 20 = 70$ subtract the tens

$5 - 7 = 2$ subtract the ones

Smaller number is on top for ones place

$$500 + 70 - 2 = 568$$

$$\begin{array}{r} \textcircled{4} \quad 7,053 \\ - 2,690 \\ \hline \end{array}$$

$$7,000 - 2,000 = 5,000$$

$$000 - 600 = -600$$

$$50 - 90 = -40$$

$$3 - 0 = +3$$

$$\underline{4,363}$$

$$\begin{array}{r} \textcircled{5} \quad 146.9 \\ - \quad 92.5 \\ \hline 54.4 \end{array}$$

$$\begin{array}{r} \textcircled{7} \quad 5,889 \\ - \quad 673 \\ \hline 5,156 \end{array}$$

$$\begin{array}{r} \textcircled{6} \quad \overset{12}{217} \quad 12 \\ 0 \quad 138.2 \\ - \quad 79.6 \\ \hline 58.6 \end{array}$$

$$\begin{array}{r} \textcircled{8} \quad 9.6 \\ \quad 4.87 \\ \hline 9 - 4 = 5 \\ 0.6 - 0.8 = -.2 \\ 0.00 - 0.07 = -0.07 \\ \hline 4.73 \end{array}$$

Study Link 1.4

① a. $148 \text{ \& } 127$

b. Total number of cards

c. $148 + 127 = b$

d. $b = 275$

e. 275 baseball cards

② a. 20.00; 3.89; 149

b. The amount of change

c. $20.00 - (3.89 + 1.49) = c$

$$\begin{array}{r} 20.00 \\ - 3.89 \\ - 1.49 \\ \hline c \end{array}$$

or d. $c = 14.62$

e. \$14.62

③ a. 0.6, 1.15, 1.35, 0.925

b. The length of the ribbons

c. $b = 0.6 + 1.15 + 1.35 + 0.925$

d. $b = 4.025$

e. 4.025 meters

Study Link 2.5

Problems 1-5 will vary

Practice,

$$\begin{array}{r} \textcircled{6} \quad \overset{1}{2}, \overset{1}{6} \overset{1}{8} \overset{1}{3} \\ + 2,939 \\ \hline 5,622 \end{array}$$

$$\begin{array}{r} \textcircled{7} \quad \overset{5}{3} \overset{1}{7} \overset{1}{0} \overset{1}{2} \\ \times \quad \quad \quad 8 \\ \hline 29,616 \end{array}$$

or

$$\begin{array}{r} 3702 \\ \times 8 \\ \hline 29616 \end{array}$$

$$\begin{array}{r} \textcircled{8} \quad \overset{9}{5} \overset{10}{10} \overset{14}{14} \\ - 86 \\ \hline 518 \end{array}$$

$$\begin{array}{r} \textcircled{9} \quad \quad \quad 13 \\ 3 \overline{) 39} \\ \underline{- 3} \\ 09 \\ \underline{- 09} \\ 0 \end{array}$$

Study Link 2.6

- ① 80%
15%
70%
5%

- ② Extremely unlikely
Extremely likely
Very unlikely
Very likely
Unlikely
Likely
50-50 chance

Study Link 2.7

①

1,000

$$70 \times 30 = 2,100$$

$$73 \times 28$$

↑ ↓ ↑ ↓
Stay the same when 4 or less

Will round up because it is closer to 30 than to 20.

②

1,000

$$10 \times 700 = 7,000$$

③

10,000

$$100 \times 100 = 10,000$$

④

10

$$20 \times 2 = 40$$

$$17 \times 2.2$$

↑ ↓ ↑ ↓
Round up Stay the same

⑤

10

$$3 \times 4 = 12$$

$$2.6 \times 3.9$$

↑ ↓ ↑ ↓
Round up

Try This

⑥

$$4.5 \times 68 = 3,060$$

$$684 \times 5 = 3,420$$

$$864 \times 5 = 4,320$$

Guess and check method used.

Studylink 2.8

① $8 \times 19 = 152$
 $8 \times 20 = 160$
 (100s)

$$\begin{array}{r} 7 \\ 19 \\ \times 8 \\ \hline 152 \end{array}$$

or

1	9
8	2
8	8

② $155 \times 6 = 930$
 $150 \times 6 = 900$
 (100s)

$$\begin{array}{r} 33 \\ 155 \\ \times 6 \\ \hline 930 \end{array}$$

or

1	5	5
6	0	0
6	3	0

③ $37 \times 58 = 2,146$
 (1,000s)
 $40 \times 60 = 2,400$

$$\begin{array}{r} 83 \\ 37 \\ \times 58 \\ \hline 296 \\ 1850 \\ \hline 2146 \end{array}$$

or

3	7
5	5
2	5
1	4
4	6

④ $5 \times 4.2 = 21.0$
 (10s)
 $5 \times 4 = 20$

$$\begin{array}{r} 4.2 \\ \times 5 \\ \hline 21.0 \end{array}$$

or

4	2
2	0
2	0
1	0

⑤ $9.3 \times 2.8 = 26.04$
 (10s)
 $9 \times 3 = 27$

$$\begin{array}{r} 2 \\ 9.3 \\ \times 2.8 \\ \hline 744 \\ 1860 \\ \hline 26.04 \end{array}$$

or

9	3
8	6
2	2
6	7
0	4

2.9 Study Link

① $94 \times 73 = 6,862$ (1,000s)
 $90 \times 70 = 6,300$
~~63~~ Add zeros on the end

9	4	
6	6	2
8	2	1
	6	2

② $24 \times 3.7 = 88.8$ (10s)
 $20 \times 4 = 80$

2	4	
0	6	2
8	1	2
	8	8

③ $5.4 \times 6.18 = 33.372$
 $5 \times 6 = 30$ (10s)

5	4	0	1	8	
3	3	0	5	4	0
3	3	4	0	4	3
					2

④ $384 \times 261 = 100,224$
 $400 \times 300 = 120,000$ (100,000s) (100s)

	3	8	4	
1	0	6	1	0
0	1	8	4	2
0	0	3	0	0

⑤ $17.7 \times 19.3 = 341.61$
 \uparrow $20 \times 20 = 400$

	1	7	7	
3	0	1	0	7
4	0	9	6	3

Practice

$$\begin{array}{r} \textcircled{6} \quad 7.402 \\ + 2.587 \\ \hline 9.989 \end{array}$$

$$\begin{array}{r} \textcircled{7} \quad 5 \text{ R} 2 \text{ or } 5 \frac{2}{7} \\ 7 \overline{) 37} \\ \underline{- 35} \\ 2 \end{array}$$

$$\begin{array}{r} \textcircled{8} \quad \begin{array}{r} 2 \text{ } 12 \\ 328 \\ - 237 \\ \hline 91 \end{array} \end{array}$$

$$\begin{array}{r} \textcircled{9} \quad \$ 15.75 \\ + \$ 3.25 \\ \hline \$ 19.00 \end{array}$$

Study Link 2.10

Puzzle 1: 3 9 0 7 5 6

Puzzle 2: 3 4 7 1 5 4 9

Practice, ,

$$\begin{array}{r} \textcircled{3} \quad 7,772 \\ + 1,568 \\ \hline 9,340 \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad 272 \\ - 228 \\ \hline 044 \end{array}$$

$$\begin{array}{r} \textcircled{5} \quad \begin{array}{l} 13 \\ 826 \end{array} \\ \times 54 \\ \hline 3304 \\ 41300 \\ \hline 44,604 \end{array}$$

or

4	4	0	1	3	5
4	3	2	0	2	4
, 604					

$$\begin{array}{r} \textcircled{6} \quad 19 \text{ R}2 \\ 3 \overline{) 59} \\ \underline{-36} \\ 29 \\ \underline{-27} \\ 2 \end{array} \quad \text{or} \quad 19\frac{2}{3}$$