# SPEGTRUM <br>  

## Focused Practice for Math Mastery

- Fractions and decimals
- Perimeter, area, and volume
- Classifying geometric figures
- Preparing for algebra
- Graphing on the coordinate plane
- Answer key
$\qquad$
Check What You Know
Multiplying and Dividing Whole Numbers
Multiply.

I. | a | b |
| :---: | ---: |
| 49 | 380 |
| $\times 35$ | $\times \quad 22$ |

$$
\begin{array}{r}
c \\
816 \\
\times \quad 32 \\
\hline
\end{array}
$$

d

$$
276
$$

$$
\begin{array}{r}
\times 80 \\
\hline
\end{array}
$$

2. 2714



818
$\begin{array}{r} \\ \times 321 \\ \hline\end{array}$
3.

$$
\begin{array}{r}
445 \\
\times \quad 176 \\
\hline
\end{array}
$$

| 3420 |
| ---: |
| $\times \quad 634$ |

5867

6334

| $\times 382 \times 257$ |
| :--- |

Divide.

| a | b | c | d |
| :---: | :---: | :---: | :---: |
| 4. $3 \longdiv { 7 6 2 }$ | 7 $\longdiv { 4 2 3 }$ | $7 2 \longdiv { 2 1 6 }$ | $3 3 \longdiv { 5 9 4 }$ |
| 5. $2 4 \longdiv { 6 7 1 }$ | $6 3 \longdiv { 8 8 7 }$ | $4 5 \longdiv { 6 0 7 5 }$ | $8 9 \longdiv { 3 2 9 9 }$ |
| 6. $9 2 \longdiv { 8 1 4 7 }$ | $1 4 \longdiv { 3 3 1 5 }$ | $7 6 \longdiv { 2 6 4 7 }$ | $1 7 \longdiv { 8 4 5 1 }$ |

$\qquad$

## Multiplying and Dividing Whole Numbers

Solve each problem.
7. A video game company can fit 535 boxes of games into a truck. If the company has 47 full trucks, how many games does it have total? The company has $\qquad$ games total.
8. Sally bought 1,425 crayons that came in packs of 15 . How many packs of crayons did Sally buy?
Sally bought $\qquad$ packs.
9. Each day, I, 035 new apps are uploaded to a web server. After 28 days, how many apps would have been uploaded?
___ apps would have been uploaded.
10. An art museum has 1,042 pictures to split equally into 45 different exhibits. How many more pictures does the museum need to make sure each exhibit has the same amount?

The museum needs $\qquad$ more pictures.
II. Robin is making bead necklaces. She wants to use 717 beads to make 57 necklaces. If she wants each necklace to have the same number of beads, how many beads will she have left over?

She will have $\qquad$ beads left over.
12. Each day, the gum ball machine in the mall sells 919 gum balls. How many gum balls would it have sold after 160 days?
It would have sold $\qquad$ gumballs.
7.
8.
9.
10.
10.
$\qquad$

## Lesson I.I Multiplying 2 and 3 Digits by 2 Digits

Multiply right to left.
$\begin{array}{r}2 \\ 24 \\ \times \quad 7 \\ \hline 168 \\ \hline\end{array} \begin{array}{r}24 \\ \hline 168 \\ +720 \\ \hline 888\end{array} \quad \begin{array}{r}24 \\ \times \quad 30 \\ \hline\end{array}$

Multiply right to left.

$$
\begin{aligned}
& 427
\end{aligned}
$$

Multiply.

|  | a | b | c | d | e | f |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I. | 43 | 75 | 52 | 36 | 16 | 21 |
|  | $\begin{array}{r} \\ \times 42 \\ \hline\end{array}$ | $\times 12$ | +28 | +911 | $\times 77$ | +13 |
| 2. | 24 | 62 | 96 | 18 | 33 | 45 |
|  | $\times 87$ | +54 | $\times 32$ | $\times 47$ | $\times 79$ | $\times 63$ |

3. 


4.

$\begin{array}{r}235 \\ 86 \\ \hline\end{array}$
5.

$$
\begin{array}{r}
415 \\
907 \\
\times \quad 33 \\
\times \quad 27 \\
\times \quad 82 \\
\hline
\end{array}
$$

$\qquad$

## Lesson I. 2 Multiplying 4 Digits by I and 2 Digits

$$
\begin{aligned}
& \text { Multiply from right to left. } \\
& 7198
\end{aligned}
$$

Multiply.
$I$.


2. $\begin{array}{r}4728 \\ \times \quad 4 \\ \hline\end{array}$

3. $\begin{array}{r}7526 \\ \times \quad 3 \\ \hline\end{array}$

4. $\begin{array}{r}5297 \\ \times \quad 64 \\ \hline\end{array}$

5.

$\qquad$

## Lesson I. 3 Dividing 3 Digits by 2 Digits

$71 \div 14=5 \quad 18 \div 14=1$ remainder I remainder 4
$14 \times 5=70 \cdots \frac{1 4 \longdiv { 7 1 8 }}{\frac{70}{18}}$
$1 4 \longdiv { 7 1 8 }$

The quotient is 51 .
The remainder is 4 .

Divide.
a
I.
$2 3 \longdiv { 2 6 4 }$
$3 2 \longdiv { 5 7 1 }$
$8 1 \longdiv { 7 2 4 }$
$5 2 \longdiv { 3 2 8 }$
2.
$6 1 \longdiv { 4 8 8 }$
$3 5 \longdiv { 1 7 5 }$
$8 2 \longdiv { 3 6 2 }$
$4 7 \longdiv { 7 1 9 }$
3. $9 7 \longdiv { 8 9 1 }$
$2 6 \longdiv { 4 2 3 }$
$4 3 \longdiv { 9 1 6 }$
$5 7 \longdiv { 6 4 9 }$
$\qquad$

## Lesson I. 4 Dividing 4 Digits by 2 Digits

$$
51 \div 23=2 \quad 57 \div 23=2 \quad 113 \div 23=4
$$ remainder 5 remainder 11 remainder 21

| 2 | 22 | 224 | 224 r21 |
| :---: | :---: | :---: | :---: |
| $2 3 \longdiv { 5 1 7 3 }$ | $2 3 \longdiv { 5 1 7 3 }$ | $2 3 \longdiv { 5 1 7 3 }$ | $2 3 \longdiv { 5 1 7 3 }$ |
| 6 | -46 | $\underline{-46}$ | $\begin{array}{r}-46 \\ \hline 57\end{array}$ |
| $23 \times 2=46$ | - 46 | -46 | -46 |
|  | 113 | 113 | 113 |
| $23 \times 2=46$ |  | 92 | -92 |
|  | $\text { is } 224 \text {. }$ | 21 | (21) |

Divide.
3.
$9 6 \longdiv { 5 3 7 9 }$
$4 8 \longdiv { 7 2 4 6 }$
$\qquad$

## Lesson I. 5 Problem Solving

## Solve each problem.

I. At the Bead Shop, there are 25 rows of beads. If there are 320 beads in each row, how many beads are in the shop?
There are $\qquad$ beads in the shop.
2. The cafeteria planned to bake 3 cookies for every student in the school. If there are 715 students, how many cookies does the cafeteria need to bake?

The cafeteria needs to bake $\qquad$ cookies.
3. A group of 123 students went on a field trip to collect seashells. If the students collected 15 shells each, how many shells did they collect?

The students collected $\qquad$ shells.
4. A girls' club is trying to get into the record books for the most hair braids. There are 372 girls. If each girl braids her hair into 40 little braids, how many braids will they have?

They will have $\qquad$ braids.
5. A school bought 83I boxes of computer paper for the computer lab. Each box had 59 sheets of paper inside it. How many sheets of paper were bought in total?
The school bought $\qquad$ sheets of paper.
6. A vat of orange juice contains the juice from 23 I oranges. If a company has 611 vats, how many oranges would it need to fill them all?
The company would need $\qquad$ oranges.

## 5.

6. 

$\qquad$

## Lesson I.5 Problem Solving

Solve each problem.
I. The Pancake Restaurant served 384 pancakes. If 87 customers ate an equal number of pancakes, how many did each person eat?
Each person ate $\qquad$ pancakes.
2. Gary opened a bag of candy containing 126 pieces. He wants to give each of his guests the same number of pieces. If he has 42 guests, how many pieces does each person get?
Each guest gets $\qquad$ pieces.
3. At the local fair, 358 people waited in line for a boat ride. The boat can hold 8 people. How many trips will the boat have to take for everyone to get a ride?
The boat will have to take $\qquad$ trips.
4. Cafeteria workers were putting milk cartons into crates. They had I,052 cartons and 36 cartons in each crate. How many full crates did they end up with?
They ended up with $\qquad$ full crates.
5. A machine in a candy company creates 9,328 pieces of candy each hour. If a box of candy has 98 pieces in it, how many boxes does the machine make in one hour?
The machine makes $\qquad$ boxes each hour.
6. Oliver was trying to beat his old score of $\mathrm{I}, 842$
4.
3.

$\qquad$

## Check What You Learned

Multiplying and Dividing Whole Numbers
Multiply.

|  | a | b | c | d |
| :---: | :---: | :---: | :---: | :---: |
| 1. | 280 | 814 | 497 | 6492 |
|  | $\times 93$ | + 37 | $\times 48$ | $\begin{array}{r} \\ \times \quad 82 \\ \hline\end{array}$ |
| 2. | 2158 | 8291 | 212 | 394 |
|  | $\times 32$ | + 54 | $\times 561$ | $\times 627$ |
| 3. | 4176 | 9192 | 7315 | 5639 |
|  | $\times 283$ | $\times 562$ | $\times 141$ | $\times 374$ |

## Divide.

4. 

$6 \longdiv { 2 1 4 2 }$
$4 \longdiv { 8 6 7 6 }$
$4 9 \longdiv { 3 9 2 }$
34 2589
5.
$7 2 \longdiv { 7 4 5 }$
$4 5 \longdiv { 2 1 3 }$
$6 1 \longdiv { 1 7 0 8 }$
94 $\longdiv { 4 6 4 9 }$
6.
$5 2 \longdiv { 9 2 4 3 }$
$6 8 \longdiv { 3 1 7 4 }$
$1 6 \longdiv { 4 2 3 6 }$
$8 1 \longdiv { 2 7 4 8 }$
$\qquad$

## Check What You Learned

## Multiplying and Dividing Whole Numbers

Solve each problem.
7. The park's sprinklers can spray 1,748 gallons of water on the grass in 38 minutes. How many gallons can they spray in one minute?

They can spray $\qquad$ gallons per minute.
8. The auto factory will build I, 408 new trucks in the next 32 days. How many will it build in one day? It will build $\qquad$ trucks each day.
9. Pizza Depot will open 3I new restaurants next year. Each restaurant will need 27 employees. How many employees will Pizza Depot need to hire for the new restaurants?

Pizza Depot will need to hire $\qquad$ employees.
10. The parking lot has 1,326 spaces to hold cars. The lot is divided into 26 equal rows. How many cars can be parked in each row?
$\qquad$ cars can park in each row.
II. If a machine can make 761 pencils in a second, how many pencils can it make in 23 seconds?

It can make $\qquad$ pencils.
12. In New York City, each mail truck has I,023
10.
7.
8.
9.
12.
pieces of junk mail. If there are 7I mail trucks, how much junk mail do they have total?

They have $\qquad$ pieces of junk mail.

