

Name _____

Problem Solving • Use the Distributive Property



COMMON CORE STANDARD—3.NBT.3
Use place value understanding and properties of operations to perform multi-digit arithmetic.

Read each problem and solve.

- Each time a student turns in a perfect spelling test, Ms. Ricks puts an achievement square on the bulletin board. There are 6 rows of squares on the bulletin board. Each row has 30 squares. How many perfect spelling tests have been turned in?

Think: $6 \times 30 = 6 \times (10 + 10 + 10)$
 $= 60 + 60 + 60 = 180$

180 spelling tests

- Norma practices violin for 50 minutes every day. How many minutes does Norma practice violin in 7 days?

- A kitchen designer is creating a new backsplash for the wall behind a kitchen sink. The backsplash will have 5 rows of tiles. Each row will have 20 tiles. How many tiles are needed for the entire backsplash?

- A bowling alley keeps shoes in rows of cubbyholes. There are 9 rows of cubbyholes, with 20 cubbyholes in each row. If there is a pair of shoes in every cubbyhole, how many pairs of shoes are there?

- The third-grade students are traveling to the science museum in 8 buses. There are 40 students on each bus. How many students are going to the museum?

Lesson Check (3.NBT.3)

- Each snack pack holds 20 crackers. How many crackers in all are there in 4 snack packs?
- A machine makes 70 springs each hour. How many springs will the machine make in 8 hours?

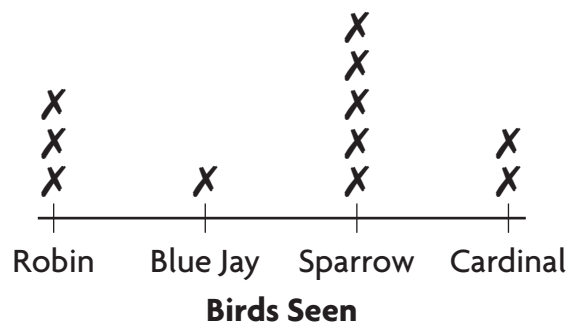
Spiral Review (3.OA.1, 3.NBT.1, 3.MD.4)

- Lila read 142 pages on Friday and 168 pages on Saturday. Estimate how many pages Lila read on Friday and Saturday combined.
- Jessica wrote $6 + 6 + 6 + 6$ on the board. What is another way to show $6 + 6 + 6 + 6$?

Use the line plot for 5–6.

- Eliot made a line plot to record the number of birds he saw at his bird feeder. How many more sparrows than blue jays did he see?

- How many robins and cardinals combined did Eliot see?



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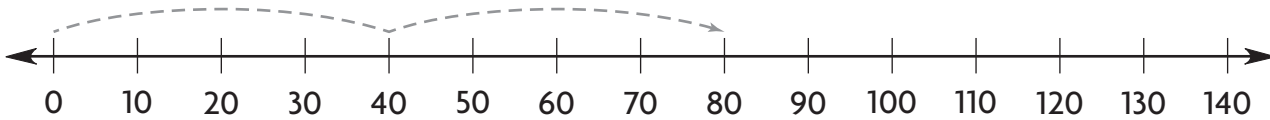
Multiplication Strategies with Multiples of 10



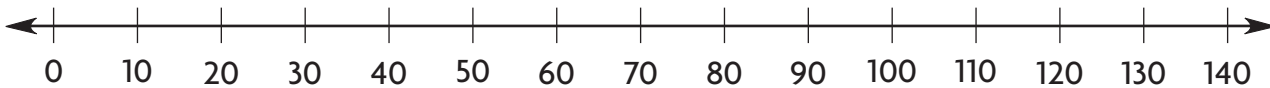
COMMON CORE STANDARD—3.NBT.3
Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use a number line to find the product.

1. $2 \times 40 = \underline{80}$



2. $4 \times 30 = \underline{\hspace{2cm}}$



Use place value to find the product.

3. $5 \times 70 = 5 \times \underline{\hspace{1cm}} \text{ tens}$
 $= \underline{\hspace{1cm}} \text{ tens} = \underline{\hspace{2cm}}$

4. $60 \times 4 = \underline{\hspace{1cm}} \text{ tens} \times 4$
 $= \underline{\hspace{1cm}} \text{ tens} = \underline{\hspace{2cm}}$

5. $7 \times 30 = 7 \times \underline{\hspace{1cm}} \text{ tens}$
 $= \underline{\hspace{1cm}} \text{ tens} = \underline{\hspace{2cm}}$

6. $90 \times 3 = \underline{\hspace{1cm}} \text{ tens} \times 3$
 $= \underline{\hspace{1cm}} \text{ tens} = \underline{\hspace{2cm}}$

Problem Solving



7. One exhibit at the aquarium has 5 fish tanks. Each fish tank holds 50 gallons of water. How much water do the 5 tanks hold?

8. In another aquarium display, there are 40 fish in each of 7 large tanks. How many fish are in the display?

Lesson Check (3.NBT.3)

- Each bag of pattern blocks contains 50 blocks. To make a class pattern, the teacher combines 4 bags of blocks. How many pattern blocks are there?

- A deli received 8 blocks of cheese. Each block of cheese weighs 60 ounces. What is the total weight of the cheeses?

Spiral Review (3.NBT.1, 3.NBT.2, 3.MD.3)

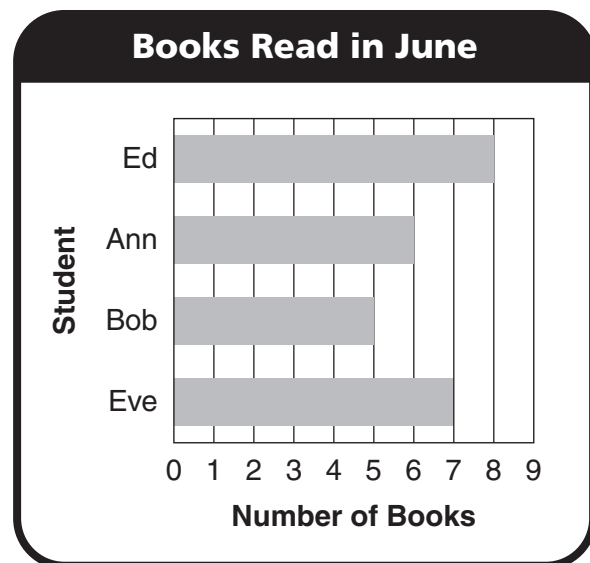
- Alan and Betty collected cans for recycling. Alan collected 154 cans. Betty collected 215 cans. How many cans did they collect?

- The third graders collected 754 cans. The fourth graders collected 592 cans. Estimate how many more cans the third graders collected.

Use the bar graph for 5–6.

- How many more books did Ed read than Bob?

- How many books did the four students read in June?



Name _____

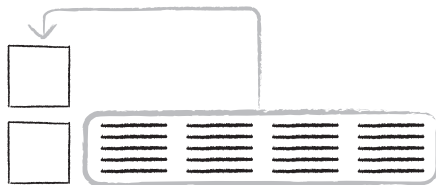
Multiply Multiples of 10 by 1-Digit Numbers



COMMON CORE STANDARD—3.NBT.3
Use place value understanding and properties of operations to perform multi-digit arithmetic.

Find the product. Use base-ten blocks or draw a quick picture.

1. $4 \times 50 = \underline{200}$



2. $60 \times 3 = \underline{\hspace{2cm}}$

3. $\underline{\hspace{2cm}} = 60 \times 5$

Find the product.

4.
$$\begin{array}{r} 30 \\ \times 8 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 50 \\ \times 2 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 60 \\ \times 7 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 70 \\ \times 4 \\ \hline \end{array}$$

8. $6 \times 90 = \underline{\hspace{2cm}}$

9. $9 \times 70 = \underline{\hspace{2cm}}$

10. $8 \times 90 = \underline{\hspace{2cm}}$

11. $\underline{\hspace{2cm}} = 6 \times 80$

Problem Solving



12. Each model car in a set costs \$4. There are 30 different model cars in the set. How much would it cost to buy all the model cars in the set?

13. Amanda exercises for 50 minutes each day. How many minutes will she exercise in 7 days?

Lesson Check (3.NBT.3)

1. Each shelf in one section of the library holds 30 books. There are 9 shelves in that section. How many books will these shelves hold?
2. One can of juice mix makes 60 ounces of juice. How many ounces of juice can be made from 6 cans of juice mix?

Spiral Review (3.OA.3, 3.OA.5, 3.OA.8)

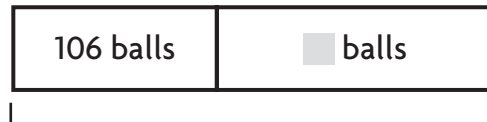
3. Sue bought 7 cans of tennis balls. There are 3 balls in each can. How many balls did Sue buy?
4. Use the Commutative Property of Multiplication to write a related multiplication sentence.

$$3 \times 4 = 12$$

5. Lyn drew this bar model to solve a problem. What operation should she use to find the unknown number?
6. Joe drew this bar model to find the unknown number of balls. Find the unknown number.



■ flowers



250 balls
