NAME:

Math
PATHWAYS&PITFALLS

Purpose

To solve multiplication problems with the same number in each group

Math Words

group   A collection of things or people, like a team, is a group.

each   If there is money in each pocket, then that means every pocket has money in it.

Starter Problem

Mike has 3 boxes. There are 5 cars and 2 marbles in each box. Which number sentence gives the total number of marbles? Write the total in the blank.

$$3 + 2 = \underline{\qquad}$$ $$3 \times 2 = \underline{\qquad}$$

$$3 \times 5 = \underline{\qquad}$$ $$3 + 5 + 2 = \underline{\qquad}$$

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Mike has 3 boxes. There are 5 cars and 2 marbles in each box. Which number sentence gives the total number of marbles? Write the total in the blank.

$3 + 2 =$ _____ $3 \times 2 =$ _____

$3 \times 5 =$ _____ $3 + 5 + 2 =$ _____

Student Thinking

Martin

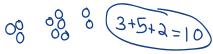I drew 3 boxes and put 2 marbles in each. That's 3 times 2 equals the total number of marbles. It's 6 marbles.

$3 \times 2 = 6$

OK

Gina

There are 3 numbers to add. Total means how many in all. It's 3 plus 5 plus 2. That's 10 marbles.

$3 + 5 + 2 = 10$

Oops!

Things to Remember

✳ ....

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✳ ....

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STOP

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Our Turn

Draw a picture for each problem.
Circle and solve the correct number sentence.

1. Mr. Holden bought 3 boxes with 5 bags of chips and 1 prize in each.
    Which number sentence gives the total number of bags of chips?

    $3 + 5 + 1 = $ _____ $3 \times 5 + 1 = $ _____

    $3 \times 5 = $ _____ $3 \times 1 = $ _____

2. Mrs. Fong has 2 bananas, 3 apples, and 5 oranges. She is making
    2 bowls of fruit salad with the fruit. Which number sentence shows
    the number of pieces of fruit that Mrs. Fong has?

    $2 + 2 + 3 + 5 = $ _____ $5 \times 2 = $ _____

    $2 + 3 + 5 = $ _____ $2 \times 3 = $ _____

3. Alisha is making 4 sack lunches. She will put 2 sandwiches and
    3 cookies in each bag. Which number sentence shows the
    number of cookies that Alisha needs?

    $4 + 2 + 3 = $ _____ $4 \times 2 = $ _____

    $4 \times 2 \times 3 = $ _____ $4 \times 3 = $ _____

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My Turn

Draw a picture for each problem.
Circle and solve the correct number sentence.

1. Mr. Velez brought 2 soft drinks and 3 health bars for each of his grandchildren on their camping trip. He has 3 grandchildren. Which number sentence gives the total number of soft drinks he brought?

    2 + 3 + 3 = _____   2 x 3 + 3 = _____

    3 x 2 = _____   3 x 3 = _____

2. Jenny has 8 tulips, 4 roses, and 6 snapdragons. She will put the flowers in 2 small baskets. Which number sentence shows the total number of flowers?

    8 + 4 + 6 = _____   8 x 4 x 6 = _____

    2 x 8 = _____   2 x 8 + 4 + 6 = _____

3. Kai has room for 2 file boxes, 3 magazine holders, and 2 CD boxes on each shelf. He has 4 shelves. Which number sentence shows the total number of CD boxes Kai will need?

    2 x 3 x 2 x 4 = _____   2 x 3 x 2 = _____

    4 + 2 = _____   4 x 2 = _____

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Multiple Choice Mini Lesson

Fill in the circle next to the answer you choose.

1. Kim has 4 bottles. There are 2 cups of juice and 1 straw in each bottle. Which number sentence gives the total number of cups of juice?

    ○ 4 + 2 + 1 = _____   ○ 4 + 2 = _____   ○ 4 x 2 = _____

2. There are 4 third grade teams. Every team has 1 captain, 2 soccer balls, and 3 basketballs. Which number sentence gives the number of balls for one team?

    ○ 4 + 1 + 2 + 3 = _____   ○ 4 x 2 = _____   ○ 2 + 3 = _____

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Writing Task Mini Lesson

Explain why the drawing below can be used to solve the problem.

Mrs. James got 6 markers and 4 pens for each of her 5 children. How many pens did she get?

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