

Student Guide

Workshop: Multiplication and Division Stories (SG pp. 66–68)

Questions 1–16

1.* 45 cents; I skip counted by 5s.

H O L L Y W O O D
 5 10 15 20 25 30 35 40 45
 $5 \times 9 = 45$ cents

2. 135 cents or \$1.35



$45¢ \times 3 = 135$ cents
 $45 + 45 + 45 = 135$ cents

3. 4 shirts; Each shirt uses the letter “O” 3 times. I grouped the 12 letters into groups of 3.

O O O O
 O O O O
 O O O O
 3 6 9 12

3 letters \times 4 shirts = 12 letters
 12 letters \div groups of 3 = 4 shirts

4. 6 shirts; Each shirt uses the letter “L” 2 times. I grouped the 12 letters into groups of 2.

L L L L L L
 L L L L L L
 2 4 6 8 10 12

2 letters \times 6 shirts = 12 letters
 12 letters \div groups of 2 = 6 shirts

5. 20 faces; I skip counted by 5 using the picture in the book.

4 faces \times 5 rows = 20 faces
 $5 + 5 + 5 + 5 = 20$ faces

Workshop: Multiplication and Division Stories

Use Self-Check: Questions 1–4 and the *Multiplication and Division Stories Workshop Menu* in the *Student Activity Book* to check your progress with solving and showing multiplication and division stories.

✓ **Self-Check: Questions 1-4**

Show how you solved each problem. Include number sentences and drawings.

- Lily wants to decorate her shirt with the name of her school, “HOLLYWOOD.” If each letter costs 5 cents, how much will all the letters cost to decorate her shirt?
- Lily decides to decorate 3 more shirts the same way. How much will all the letters for these shirts cost?
- The letter “O” comes in a package of 12 letters. How many shirts can Lily decorate?
- The letter “L” comes in a package of 12 letters. How many shirts can Lily decorate?

Story Problems

Look at your *Multiplication and Division Stories Workshop Menu* to choose strategies to solve Questions 5–16.

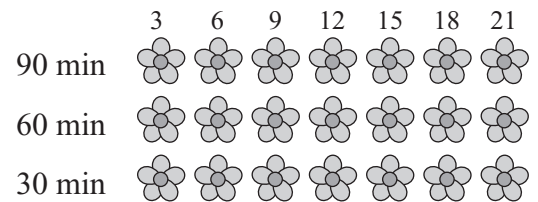
- Jason decorated his T-shirt with the faces of his friends. He put four faces each in five rows. How many faces are on Jason’s T-shirt?
- Rosa decorated her T-shirt with flowers. She put seven flowers in three rows.
 - How many flowers are on her T-shirt?
 - It took Rosa 30 minutes to sew on her first row of seven flowers. How long did it take to sew all the flowers onto her T-shirt?
- Mara decorated her T-shirt with 20 stars. She has four rows. How many stars should she put in each row?

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6. A. 21 flowers; I skip counted by 3s on my picture. I could have skip counted by 7.



$3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$ flowers
 $3 \text{ rows} \times 7 \text{ flowers} = 21 \text{ flowers}$

B. 90 min.; see picture above.
 $30 \text{ min.} + 30 \text{ min.} + 30 \text{ min.} = 90 \text{ min.}$
 $30 \text{ min.} \times 3 \text{ rows} = 90 \text{ min.}$

7. 5 stars in each row. I grouped the 20 stars into 4 rows.



$4 \text{ rows} \times 5 \text{ stars} = 20 \text{ stars}$
 $5 + 5 + 5 + 5 = 20 \text{ stars}$

8. Linda's solution to Question 7 is below.



- A. Does Linda's drawing help her solve the question? How?
 B. Write a number sentence for the story.

9. The Mann School marching band has five students in a row and six rows. How many students are in the band?

10. Jenny decorated her shirt with her name. She wants to add gem stickers. She has a sheet of 30 gem stickers. If she puts the same number of gems on each letter, how many are on each letter?



11. There are 24 students in a class at Mann School. Every student in the class will make a T-shirt with the name of the school on it.

- A. How many letters are needed to write "MANN" on each T-shirt for all the students?
 B. The class will divide into six groups to decorate the T-shirts. Each of these groups has the same number of students. How many children are in each group?

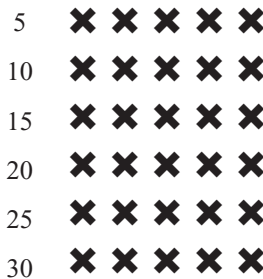
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8. A. Linda's picture does help her. The picture helped her group the 20 stars into four groups even though she used columns.

B. $20 \text{ stars} \div 4 \text{ columns} = 5 \text{ stars per column}$

9. 30 students in the band



$5 + 5 + 5 + 5 + 5 + 5 = 30 \text{ students}$

$5 \text{ students} \times 6 \text{ rows} = 30 \text{ students}$

10. 6 gems on each letter; there are 5 letters, so I grouped the 30 gems into 5 groups.



$6 + 6 + 6 + 6 + 6 = 30 \text{ gems}$

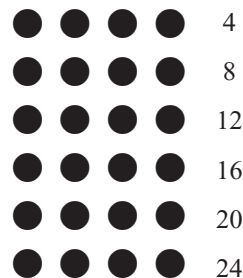
$5 \text{ letters} \times 6 \text{ gems} = 30 \text{ gems}$

11. A. 96 letters for all the t-shirts.

$4 \text{ letters} \times 24 \text{ students} = 96 \text{ letters}$

I thought $24 + 24 + 24 + 24 = 96$ to make the addition easier.

B. 4 students in each group. I sorted the 24 students into 6 groups.



$4 + 4 + 4 + 4 + 4 + 4 = 24 \text{ students}$

$4 \text{ students} \times 6 \text{ groups} = 24 \text{ students}$

$24 \text{ students} \div 6 \text{ groups} = 4 \text{ students in each group}$

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