MATH

Repeated addition

Name _____ Date _____

I can write repeated addition as multiplication.

1 How it works

When you add the same number again and again, you can multiply instead. 4 + 4 + 4 adds three 4s, so it is 3 × 4 = 12. Count how many times the number is added: that is the first factor.

4 + 4 + 4

= 3 × 4 = 12

3 fours

2 Write a multiplication for each addition

How many times is it added?

1. **6 + 6 + 6 + 6 + 6** = ☐ × ☐ = ☐
2. **3 + 3 + 3 + 3** = ☐ × ☐ = ☐
3. **7 + 7 + 7 + 7** = ☐ × ☐ = ☐
4. **8 + 8** = ☐ × ☐ = ☐
5. **2 + 2 + 2** = ☐ × ☐ = ☐
6. **10 + 10 + 10 + 10 + 10** = ☐ × ☐ = ☐
7. **6 + 6 + 6** = ☐ × ☐ = ☐
8. **9 + 9 + 9** = ☐ × ☐ = ☐

How did I do? ☆ ☆ ☆

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Practice

Name _____ Date _____

I can write a multiplication as repeated addition.

1 Write the repeated addition, then solve

1. 5 × 9 = _____ = ☐
2. 4 × 6 = _____ = ☐
3. 3 × 5 = _____ = ☐
4. 5 × 5 = _____ = ☐
5. 4 × 2 = _____ = ☐
6. 6 × 2 = _____ = ☐

2 Draw jumps or dots to show it

Pick the first two from above.

How did I do? ☆ ☆ ☆

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Think deeper

Name _____ Date _____

I can explain my thinking about multiplication.

1 True or false? Circle it.

1. 4 + 4 + 4 + 4 + 4 + 4 = 6 × 4 — true / false
2. 8 + 8 + 8 = 4 × 8 — true / false
3. 6 + 6 + 6 + 6 + 6 + 6 = 6 × 6 — true / false
4. 3 + 3 + 3 + 3 + 3 = 6 × 3 — true / false
5. 7 + 7 + 7 = 3 × 7 — true / false
6. 9 + 9 + 9 + 9 + 9 + 9 = 7 × 9 — true / false

2 Show it two ways

Draw groups, then write the addition.

4 × 3

5 × 2

3 Think about it

1. Write 6 × 4 as an addition.
2. What is 7 + 7 + 7 as a multiplication?
3. Why is 9 × 10 faster than adding?

How did I do? ☆ ☆ ☆

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Word problems

Name _____ Date _____

I can use multiplication to solve a problem.

1 Read, draw, solve

Draw groups, an array or jumps in the box.

1 Ben reads 5 pages each day for 4 days. Write an addition and a multiplication.

Answer:

2 Each bike has 2 wheels. How many wheels do 6 bikes have?

Answer:

3 A box holds 10 crayons. How many crayons are in 3 boxes?

Answer:

4 Aisha says 3 + 3 + 3 + 3 + 3 is the same as 5 × 3. Is Aisha right?

Answer:

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: repeated addition

1 Page 1

Multiply: 1) 5 × 6 = 30; 2) 4 × 3 = 12; 3) 4 × 7 = 28; 4) 2 × 8 = 16; 5) 3 × 2 = 6; 6) 5 × 10 = 50; 7) 3 × 6 = 18; 8) 3 × 9 = 27.

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Addition: 1) 9 + 9 + 9 + 9 + 9 = 45; 2) 6 + 6 + 6 + 6 = 24; 3) 5 + 5 + 5 = 15; 4) 5 + 5 + 5 + 5 + 5 = 25; 5) 2 + 2 + 2 + 2 = 8; 6) 2 + 2 + 2 + 2 + 2 + 2 = 12.

Drawings: answers will vary.

3 Page 3

True or false: 1) true; 2) false; 3) true; 4) false; 5) true; 6) false.

Drawings: answers will vary.

Think: 1) 4 + 4 + 4 + 4 + 4 + 4; 2) 3 × 7 = 21; 3) One fact instead of nine additions.

4 Page 4: word problems

1) 5 + 5 + 5 + 5 = 4 × 5 = 20 pages

2) 2 + 2 + 2 + 2 + 2 + 2 = 6 × 2 = 12 wheels

3) 10 + 10 + 10 = 3 × 10 = 30 crayons

4) Yes. Both are 15.

5 Teaching tip

Have children circle each number as they count how many times it is added. Miscounting the addends is the most common mistake.

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