MATH

Interpreting expressions

Name _____ Date _____

I can compare expressions without working them out.

1 How it works

You can often compare expressions just by looking. 3 × (25 + 13) is three groups of 25 + 13, so it is 3 times as large as 25 + 13. (36 + 12) ÷ 2 is half as large as 36 + 12. Look at what is being multiplied or divided before you calculate anything.

3 × (25 + 13)

is 3 times as large as

25 + 13

No need to work it out!

2 How many times as large?

Do not work it out. Look at what is multiplied.

1. **7 × (5,836 + 231) is** ☐ **times as large as 5,836 + 231**
2. **2 × (3,447 + 317) is** ☐ **times as large as 3,447 + 317**
3. **8 × (3,814 + 352) is** ☐ **times as large as 3,814 + 352**
4. **9 × (9,329 + 822) is** ☐ **times as large as 9,329 + 822**
5. **4 × (6,439 + 437) is** ☐ **times as large as 6,439 + 437**
6. **4 × (2,022 + 655) is** ☐ **times as large as 2,022 + 655**

How did I do? ☆ ☆ ☆

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Compare without calculating

Name _____ Date _____

I can compare expressions by looking at them.

1 Write >, < or = in the circle

Think first, then check one by working it out.

1. $8 \times (49 + 47)$ ◯ $8 \times 49 + 8 \times 47$
2. $7 \times (269 + 73)$ ◯ $7 \times 269 + 73$
3. $3 \times (528 + 71)$ ◯ $3 \times 528 + 71$
4. $3 \times (63 + 47)$ ◯ $3 \times 63 + 3 \times 47$
5. $(810 - 38) \times 9$ ◯ $(810 + 38) \times 9$
6. $(338 - 67) \times 9$ ◯ $(338 + 67) \times 9$

2 Half, a quarter or a tenth?

1. $(781 + 88) \div 4$ is what part of $781 + 88$? half / a quarter / a tenth
2. $(777 + 73) \div 4$ is what part of $777 + 73$? half / a quarter / a tenth
3. $(760 + 29) \div 2$ is what part of $760 + 29$? half / a quarter / a tenth
4. $(246 + 77) \div 10$ is what part of $246 + 77$? half / a quarter / a tenth

How did I do? ☆ ☆ ☆

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Explain your thinking

Name _____ Date _____

I can explain how two expressions compare.

1 Circle the greater one, then explain

6 × (473 + 38) | 473 + 38

Because _____

(918 – 25) ÷ 3 | 918 – 25

Because _____

4 × 250 + 9 | 4 × (250 + 9)

Because _____

3 Think about it

1. Is 7 × (19 + 4) more or less than 100?
2. How does (36 + 12) ÷ 2 compare to 36 + 12?
3. Write an expression that is 3 times as large as 45 + 8.

How did I do? ☆ ☆ ☆

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Word problems

Name _____ Date _____

I can write one expression for a problem and solve it.

1 Read, write an expression, solve

Show your expression in the box.

1 Omar bakes 3 trays of 12 cookies and 8 more cookies. Write one expression for the total, then solve it.

Answer:

2 Zara buys 4 gift packs. Each pack has a $6 book and a $3 pen. Write one expression for the total cost, then solve it.

Answer:

3 Without calculating, how does 5 × (138 + 47) compare to 138 + 47?

Answer:

4 Omar says 2 × 8 + 5 and 2 × (8 + 5) are the same. Is Omar right? Show why.

Answer:

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: interpreting expressions

1 Page 1

Times as large: 1) 7; 2) 2; 3) 8; 4) 9; 5) 4; 6) 4.

2 Page 2

Compare: 1) =; 2) >; 3) >; 4) =; 5) <; 6) <.

Part: 1) a quarter; 2) a quarter; 3) half; 4) a tenth.

3 Page 3

Greater: 1) The first: it is 6 times as large; 2) The second: the first is one third of it; 3) The second: 9 is multiplied by 4 too.

Think: 1) More: 7 × 23 = 161; 2) It is half as large; 3) 3 × (45 + 8).

4 Page 4: word problems

1) 3 × 12 + 8 = 44 cookies

2) 4 × (6 + 3) = $36

3) It is 5 times as large.

4) No. 2 × 8 + 5 = 21, but 2 × (8 + 5) = 26.

5 Teaching tip

Use big, awkward numbers on purpose so children cannot easily calculate. That pushes them to reason about the structure, which is exactly what this standard asks for.

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