

**Directions: Answer each problem in the space provided. Show your work.**

Monday

Fill in the blank below with the correct mathematical symbol. <, >, or =

$$4 \times 3 + 6 \underline{\hspace{1cm}} 20 - 3 + 5$$

Fill in the blank below with the correct mathematical symbol. <, >, or =

$$9 \times 3 \underline{\hspace{1cm}} 4 \times 5 + 7$$

Fill in the blank below with the correct mathematical symbol. <, >, or =

$$8 \times 5 + 7 \underline{\hspace{1cm}} 5 \times 8 + 9$$

Fill in the blank below with the correct mathematical symbol. <, >, or =

$$7 \times 6 \underline{\hspace{1cm}} 5 \times 6 + 2$$

Tuesday

What is the two-step rule for the pattern below?

3, 8, 18, 38

- A. add 1 and then double the number
- B. multiply by 3 and then subtract 1
- C. add 5 and then multiply by 1
- D. add 2 and then add 3

Ms. James wrote the following numbers on the board.

6, 9, 15, 27

- What is Ms. James' two-step rule?
- A. add 5 and then subtract 1
  - B. multiply by 3 and then subtract 9
  - C. multiply by 2 and then subtract 3
  - D. subtract 4 and then add 7

Find the number that would make the equation correctly balanced.

$$3 \times 4 = 4 + ?$$

Wednesday

If one red trapezoid is a whole, which pattern block represents 2/3 of a whole?

- A. a green triangle
- B. a yellow hexagon
- C. an orange square
- D. a blue rhombus

Darlene is using the hexagon pattern block like the one below to create a pattern. She uses 12 hexagons in a row, but then decides she would rather use trapezoids instead. How many trapezoids will it take to cover her row of hexagons?



Find the number that would make the equation correctly balanced.

$$36 + 8 = 4 \times ?$$

Thursday

Martin and Melvin were playing a game called "Guess My Rule." On Melvin's turn, he drew the following card.

3, 11, 35, 107, 323
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Which of the following describes the pattern on the card?

- A. double the number and add 3
- B. multiply the number by 3 and subtract 2
- C. multiply the number by 3 and add 2
- D. multiply the number by 4 and add 1

What is the two-step rule for the number pattern below?

11, 16, 26, 46, 86

- A. Add 8 and then subtract 3.
- B. Double the number and then subtract 6.
- C. Subtract 5 and then add 10.
- D. Double the number and then add 1.

If one green triangle is 1/3 of a whole, which pattern block represents a whole?

- A. a red trapezoid
- B. a yellow hexagon
- C. a blue rhombus
- D. an orange square

**MATH OPEN-RESPONSE ITEM A**

- A. Judy's mother drives Judy to and from school everyday. It takes them 1 hour and 15 minutes to get to school and the same amount of time to get home. On Wednesdays Judy has soccer practice and must be home by 5:30 p.m.
1. What time must Judy leave home in order to get to school at 8:05 a.m.? Explain your answer using numbers and/or words.
  2. On Wednesdays Judy's mother must go to the bank before picking up Judy from school. She allows 15 minutes to go to the bank, 20 minutes to get to the school, and 1 hour and 15 minutes to get home. What time does Judy's mother need to leave work to get them home by 5:30 p.m.? Show all your work and/or explain your answer.

BE SURE TO LABEL YOUR RESPONSES 1 AND 2.