

Problems and Patterns

Exit Ticket 6.1: Two-step stories with a letter



Name _____ Exit Ticket 6.1

1. Write an equation for the strip diagram. Solve.

32	32	32	32
47	k		

k = _____

2. Mo has 120 cards. He gives 5 friends 14 each. How many cards are left?

Equation _____

_____ cards

I can write an equation with a letter for a two-step story.



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Problems and Patterns

Exit Ticket 6.2: Multi-step stories; estimate to check



Name _____ Exit Ticket 6.2

1. A van has 9 boxes of 24 apples. It sells 75 and shares the rest equally among 3 stores. How many apples does each store get?

_____ apples

2. Round each number to the nearest hundred to estimate $512 + 389 - 196$.

_____ + _____ - _____ = _____

I can solve a multi-step story and estimate to check.



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Problems and Patterns

Exit Ticket 6.3: True or false with = and $\neq$



Name _____ Exit Ticket 6.3

1. Write = or $\neq$ in each circle.

$$7 \times 60 \quad \bigcirc \quad 500 - 80$$

$$84 \div 4 \quad \bigcirc \quad 30 - 8$$

2. Is it true? Circle True or False.

$$3 \times 150 = 500 - 50 \quad \text{True} \quad \text{False}$$

$$720 \div 8 = 45 + 54 \quad \text{True} \quad \text{False}$$

I can tell if two sides
are equal or not equal.



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Problems and Patterns

Exit Ticket 6.4: A letter in any place



Name _____ Exit Ticket 6.4

1. Find the value of each letter.

$$w - 75 = 148 \quad w = \underline{\hspace{2cm}}$$

$$420 \div g = 6 \quad g = \underline{\hspace{2cm}}$$

2. A number times 7 is 91. Write an equation with a letter. Find the number.

Equation _____

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I can find the value of
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Problems and Patterns

Exit Ticket 6.5: Number patterns from a rule



Name _____ Exit Ticket 6.5

1. Start at 27. Add 15 each time. Write the next three numbers. Circle what is true.

27, _____, _____, _____

All odd All even Take turns

2. Fill in the blanks. Write the rule.

1,000, _____, 850, _____, 700

Rule: _____

I can make a number pattern from a rule.



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Problems and Patterns

Exit Ticket 6.6: Shape patterns from a rule



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1. Each step adds 2 squares. Draw step 3. How many squares are in step 8?



Step 1



Step 2



Step 3

Step 8: _____

2. Step 1 has 6 squares. Each step adds 4 squares. How many squares are in step 5?

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Name _____ Exit Ticket 6.6

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Problems and Patterns

Exit Ticket 6.7: Input-output tables



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1. Find the rule. Fill in the table.

In	40	52	65	81	
Out	22	34			72

Rule: _____

2. The rule is divide by 6. Fill in the table.

In	36	48	72	90
Out				

I can find the rule of
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Exit Ticket 6.8: Rules by position

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Position	1	2	3	4	n
Value	20	40	60	80	?

Value at n : _____

2. The value at position n is $n + 24$.
What is the value at position 30?
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32	32	32	32
47	k		

$$4 \times 32 - 47 = k \quad k = 81$$

One way

2. Mo has 120 cards. He gives 5 friends 14 each. How many cards are left?

Equation $120 - 5 \times 14 = c$

One way 50 cards

I can write an equation with a letter for a two-step story.



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Problems and Patterns

Exit Ticket 6.2: Multi-step stories; estimate to check

Name _____ Exit Ticket 6.2

1. A van has 9 boxes of 24 apples. It sells 75 and shares the rest equally among 3 stores. How many apples does each store get?

$$9 \times 24 = 216 \quad 141 \div 3 = 47$$

$$216 - 75 = 141$$

47 apples

2. Round each number to the nearest hundred to estimate $512 + 389 - 196$.

$$\underline{500} + \underline{400} - \underline{200} = \underline{700}$$

I can solve a multi-step story and estimate to check.



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$$7 \times 60 = 500 - 80$$

$$84 \div 4 \neq 30 - 8$$

2. Is it true? Circle True or False.

$$3 \times 150 = 500 - 50$$

True

False

$$720 \div 8 = 45 + 54$$

True

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Problems and Patterns

Exit Ticket 6.4: A letter in any place



Name _____ Exit Ticket 6.4

1. Find the value of each letter.

$$w - 75 = 148 \quad w = \underline{223}$$

$$420 \div g = 6 \quad g = \underline{70}$$

2. A number times 7 is 91. Write an equation with a letter. Find the number.

Equation 7 × n = 91
One way 13 is the number

I can find the value of a letter in an equation.



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Problems and Patterns

Exit Ticket 6.5: Number patterns from a rule

Name _____ Exit Ticket 6.5

1. Start at 27. Add 15 each time. Write the next three numbers. Circle what is true.

27, 42, 57, 72All odd All even **Take turns**

2. Fill in the blanks. Write the rule.

1,000, 925, 850, 775, 700Rule: Subtract 75

I can make a number pattern from a rule.



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Problems and Patterns

Exit Ticket 6.6: Shape patterns from a rule

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1. Each step adds 2 squares. Draw step 3. How many squares are in step 8?

Step 8: 19

2. Step 1 has 6 squares. Each step adds 4 squares. How many squares are in step 5?

22 squares

I can make a shape pattern from a rule.



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Problems and Patterns

Exit Ticket 6.7: Input-output tables

Name _____ Exit Ticket 6.7

1. Find the rule. Fill in the table.

In	40	52	65	81	90
Out	22	34	47	63	72

Rule: Subtract 18

2. The rule is divide by 6. Fill in the table.

In	36	48	72	90
Out	6	8	12	15

I can find the rule of
a table and use it.

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Position	1	2	3	4	n
Value	20	40	60	80	?

Value at n : $20 \times n$ One way

2. The value at position n is $n + 24$.
What is the value at position 30?

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I can write a rule for a value from its position.



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