



**THIRD SPACE
LEARNING**

Exit Tickets

**Domain: Expressions and
Equations**

6th grade

Exit Tickets

Name:

Standard: 6.EE.A.1

Directions: Evaluate each expression.

Focus: Write and evaluate numerical expressions involving whole-number exponents

a. 5^3

b. 7^4

c. $2^3 + 5^2$

d. 1.3^3



Name:

Standard: 6.EE.A.2a

Directions: Write an expression for each description.

Focus: Write expressions that record operations with numbers and with letters standing for numbers.

a. the product of 6 and y

b. 9 divided by p

c. the sum of 4 and b

d. subtract 5 from w



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Name:

Standard: 6.EE.A.2b

Directions: Write the coefficient, variable, and constant of each term on the correct line.

Focus: Identify parts of an expression using mathematical terms

| | |
|---------------|---|
| $5y + 15$ | coefficient _____ variable _____ constant _____ |
| $16p$ | coefficient _____ variable _____ constant _____ |
| $7 - n$ | coefficient _____ variable _____ constant _____ |
| $8 \times 9b$ | coefficient _____ variable _____ constant _____ |

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Name:

Standard: 6.EE.A.2b

Directions: Draw a line to match each expression to the correct description. Identify if the expression is the sum, product, quotient, or difference of two terms.

Focus: View one or more parts of an expression as a single entity

$5(8b + 3)$

the sum of two terms

$4m - (18p \times 5)$

the difference between two terms

$(8t - 10) \div 24$

the product of two terms

$(4c - 9) + 3b$

the quotient of two terms

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Name:

Standard: 6.EE.A.2c

Directions: Find the value of each expression.

Focus: Evaluate expressions at specific values of their variables

a. $7n - 18$ when $n = 5$

b. $9 + p \div 2$ when $p = 8$

c. A cube has side lengths (s) of 4 cm. Use the formulas to find the volume and surface area of the cube.

$V = s^3$

$A = 6s^2$

Volume = _____

Surface Area = _____



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Name:

Standard: 6.EE.A.3

Directions: Apply the distributive property to write an equivalent expression for each expression below.

Focus: Apply the properties of operations to generate equivalent expressions

a. $8(2n + 4)$

b. $5(3p - 7)$

c. $12b + 6$

d. $20 - 5a$



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Name:

Standard: 6.EE.A.4

Focus: Identify when two expressions are equivalent

Directions: Draw a line to match each pair of equivalent expressions.

$4w$

$8w + 6$

$3w + 2(4w)$

$8w + w + w$

$5w + 3(w + 2)$

$w + w + w + w$

$2(5w)$

$11w$



Name:

Standard: 6.EE.B.5

Focus: Understand solving an equation or inequality as a process of answering a question

a. Which of the following equations has a solution of $x = 5$?

$2x + 10 = 25$

$4x - 3 = 17$

$18 \div (8 - x) = 6$

b. Circle all solutions that make the inequality true.

$y - 5 \leq 12$

$y = 5$

$y = 9$

$y = 15$

$y = 17$

$y = 25$

$y = 26$



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Name:

Standard: 6.EE.B.6

Directions: Write an expression to represent each situation.

Focus: Use variables to represent numbers and write expressions when solving a real-world or mathematical problem

a. A toy store has a display of toy cars. The display has 8 shelves with c cars on each shelf. A customer buys 6 cars. Write an expression to represent how many toy cars are left on the display.

b. Clay worked 18 hours last week and earned d dollars per hour. He also received a bonus payment of \$25. Write an expression to represent how much he earned last week.



Name:

Standard: 6.EE.B.7

Directions: Solve each equation for the value of the variable.

Focus: Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$

a. $9 + n = 27$

b. $8f = 52$

c. $6 = \frac{m}{7}$

d. Drea's photo album has 12 pages full of photos. She put the same number of photos on each page. Altogether, there are 96 photos in the album. Write an equation to find the number of photos p on each page. Then solve for p .

equation _____

 $p =$ _____

Exit Tickets

Name:

Standard: 6.EE.B.8

Directions: Write a statement in the form $x > c$ or $x < c$ to represent each inequality, then graph the inequality on the number line.

Focus: Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem

a. an unknown number (x) is greater than 6b. an unknown number (x) is less than 4
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Name:

Standard: 6.EE.C.9

Directions: Write an equation to represent the situation below, then use the equation to complete the table.

Focus: Use variables to represent two quantities in a real-world problem that change in relationship to one another

Sam is 4 years older than his brother.

Let s represent Sam's age and b represent his brother's age.

equation _____

| s | b |
|-----|-----|
| 5 | 1 |
| 8 | |
| 17 | |
| 22 | |

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| Standard | Answer(s) | | | | | | | | |
|---------------|---|-----------|--|-------|---|---------|--|---------------|---|
| 6.EE.A.1 | a. 125 b. 2401 c. 33 d. 2.197 | | | | | | | | |
| 6.EE.A.2a | a. $6y$ b. $9 \div p$ c. $4 + b$ d. $w - 5$ | | | | | | | | |
| 6.EE.A.2b | <table border="1"> <tr> <td>$5y + 15$</td><td>coefficient <u>5</u> variable <u>y</u> constant <u>15</u></td></tr> <tr> <td>$16p$</td><td>coefficient <u>16</u> variable <u>p</u> constant <u>none</u></td></tr> <tr> <td>$7 - n$</td><td>coefficient <u>-1</u> variable <u>n</u> constant <u>7</u></td></tr> <tr> <td>$8 \times 9b$</td><td>coefficient <u>9</u> variable <u>b</u> constant <u>8</u></td></tr> </table> | $5y + 15$ | coefficient <u>5</u> variable <u>y</u> constant <u>15</u> | $16p$ | coefficient <u>16</u> variable <u>p</u> constant <u>none</u> | $7 - n$ | coefficient <u>-1</u> variable <u>n</u> constant <u>7</u> | $8 \times 9b$ | coefficient <u>9</u> variable <u>b</u> constant <u>8</u> |
| $5y + 15$ | coefficient <u>5</u> variable <u>y</u> constant <u>15</u> | | | | | | | | |
| $16p$ | coefficient <u>16</u> variable <u>p</u> constant <u>none</u> | | | | | | | | |
| $7 - n$ | coefficient <u>-1</u> variable <u>n</u> constant <u>7</u> | | | | | | | | |
| $8 \times 9b$ | coefficient <u>9</u> variable <u>b</u> constant <u>8</u> | | | | | | | | |
| 6.EE.A.2b | <p> $5(8b + 3)$ the sum of two terms $4m - (18p \times 5)$ the difference between two terms $(8t - 10) \div 24$ the product of two terms $(4c - 9) + 3b$ the quotient of two terms </p> | | | | | | | | |
| 6.EE.A.2c | a. 17 b. 13 c. Volume = 64cm^3 Surface Area = 96cm^2 | | | | | | | | |
| 6.EE.A.3 | a. $16n + 32$ b. $15p - 35$ c. $2(6b + 3)$, $3(4b + 2)$, or $6(2b + 1)$ d. $5(4 - a)$ | | | | | | | | |

| Standard | Answer(s) |
|----------|--|
| 6.EE.A.4 | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> $4w$ $3w + 2(4w)$ $5w + 3(w + 2)$ $2(5w)$ </div> <div style="text-align: center;"> $8w + 6$ $8w + w + w$ $w + w + w + w$ $11w$ </div> </div> |
| 6.EE.B.5 | <p>a. $4x - 3 = 17$ and $18 \div (8 - x) = 6$</p> <p>b.</p> <div style="border: 1px solid orange; padding: 10px; display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="border: 1px solid red; border-radius: 50%; padding: 5px; margin: 5px;">$y = 5$</div> <div style="border: 1px solid red; border-radius: 50%; padding: 5px; margin: 5px;">$y = 9$</div> <div style="border: 1px solid red; border-radius: 50%; padding: 5px; margin: 5px;">$y = 15$</div> <div style="border: 1px solid red; border-radius: 50%; padding: 5px; margin: 5px;">$y = 17$</div> <div style="margin: 5px;">$y = 25$</div> <div style="margin: 5px;">$y = 26$</div> </div> |
| 6.EE.B.6 | <p>a. $8c - 6$</p> <p>b. $18d + 25$</p> |
| 6.EE.B.7 | <p>a. $n = 18$</p> <p>b. $f = 6.5$</p> <p>c. $m = 42$</p> <p>d. equation: $12p = 96$</p> <p>e. $p = 8$</p> |
| 6.EE.B.8 | <p>a. $x > 6$</p> <p>b. $x < 4$</p> |




| Standard | Answer(s) | | | | | | | | | | |
|----------|--|---|---|---|---|---|---|----|----|----|----|
| 6.EE.C.9 | <p>equation: $b + 4 = s$ or $s - 4 = b$</p> <table><tr><th>s</th><th>b</th></tr><tr><td>5</td><td>1</td></tr><tr><td>8</td><td>4</td></tr><tr><td>17</td><td>13</td></tr><tr><td>22</td><td>18</td></tr></table> | s | b | 5 | 1 | 8 | 4 | 17 | 13 | 22 | 18 |
| s | b | | | | | | | | | | |
| 5 | 1 | | | | | | | | | | |
| 8 | 4 | | | | | | | | | | |
| 17 | 13 | | | | | | | | | | |
| 22 | 18 | | | | | | | | | | |

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