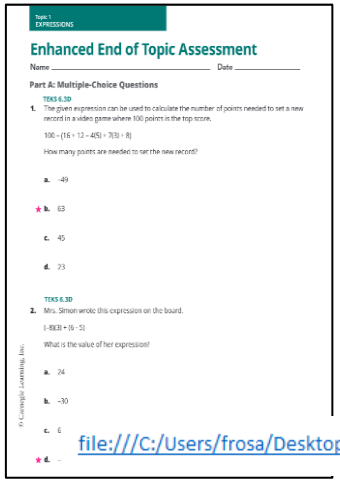
Curriculum Map – Mathematics

Grade: 6th **Subject: Math** **Topic: 1** **Title: Expressions**

Topic Assessment


Topic 1
EXPRESSIONS

Enhanced End of Topic Assessment

Name _____ Date _____

Part A: Multiple-Choice Questions

TEKS 6.3D

1. The given expression can be used to calculate the number of points needed to set a new record in a video game where 100 points is the top score.

100 − (16 + 12 − 4(5) ÷ 7(3) ÷ 8)

How many points are needed to set the new record?

a. -49

★ b. 63

c. 45

d. 23

TEKS 6.3D

2. Mrs. Simon wrote this expression on the board.

(−8)(3) + (6 − 5)

What is the value of her expression?

a. 24

b. −30

c. 6

★ d. -

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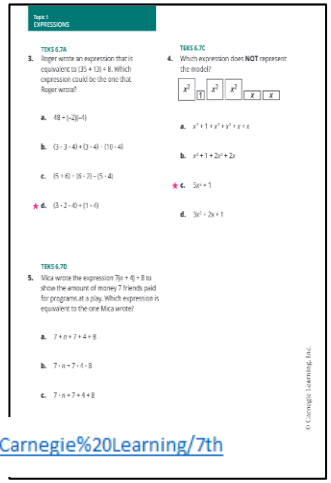
Topic 1
EXPRESSIONS

TEKS 6.7A

3. Roger wrote an expression that is equivalent to (35 + 13) + 8. Which expression could be the one that Roger wrote?

a. 48 + (−2)(−4)

b. (3 · 3 · 4) + (3 · 4) · (10 − 4)

c. (5 + 6) + (6 − 2) − (5 · 4)

★ d. (3 · 2 · 4) + (1 · 4)

TEKS 6.7C

4. Which expression does **NOT** represent the model?

a. $x^3 + 1 + x^2 + x^2 + x + x$

b. $x^2 + 1 + 2x^2 + 2x$

★ c. $5x^2 + 1$

d. $3x^2 + 2x + 1$

TEKS 6.7D

5. Mica wrote the expression 7(n + 4) + 8 to show the amount of money 7 friends paid for programs at a play. Which expression is equivalent to the one Mica wrote?

a. 7 + n + 7 + 4 + 8

b. 7 · n + 7 · 4 + 8

c. 7 · n + 7 + 4 + 8

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Mini Topics

Numerical Fluency Skills

Add, Subtract, Multiply & Divide Integers
Equivalent Numerical Expressions
Order of Operations
Prime Factorization

Skills Practice & Representations

Concrete & Pictorial Models
Algebraic Representations
Unit Rates & Conversions (CSP)

Rigor & Relevance

Assignments

Instructional Resources

Instructional Resources

Carnegie Lesson #1

Carnegie Assn # 1

Carnegie Skills Practice

--Unit Rates & Conversions

Mathia

--Unit Rates

STAAR Mastery Workbook

Sirius Math Workbook

TEKS (KS/SE)

Expressions, equations, and relationships. The student applies mathematical process standards to develop concepts of expressions and equations. The student is expected to:

R	6.3D	Add, subtract, multiply, and divide integers fluently.
R	6.7A	Generate equivalent numerical expressions using order of operations, including whole number exponents and prime factorization.
S	6.7C	Determine if two expressions are equivalent using concrete models, pictorial models, and algebraic representations.
R	6.7D	Generate equivalent expressions using the properties of operations: inverse, identity, commutative, associative, and distributive properties.

TEKS Bundle

6.7 A, B, C, D

STAAR Release Item: 6.3D

STAAR® Test	Grade 6 M	Item #	21	Content SE	6.3D	SE Type	Readiness
Administration	Spring 2022	Reporting Category	2	Process SE	Not Reported	Unit (IFD)	04

21 Julie had $237 to spend. She returned a calculator and received a $128 refund. She then bought a chair for $62.

How much money in dollars and cents did Julie have to spend after buying the chair?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

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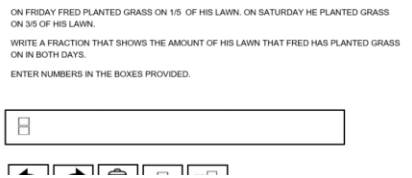
New STAAR Redesign item

Text entry


ON FRIDAY FRED PLANTED GRASS ON 1/5 OF HIS LAWN. ON SATURDAY HE PLANTED GRASS ON 3/5 OF HIS LAWN.

WRITE A FRACTION THAT SHOWS THE AMOUNT OF HIS LAWN THAT FRED HAS PLANTED GRASS ON IN BOTH DAYS.

ENTER NUMBERS IN THE BOXES PROVIDED.

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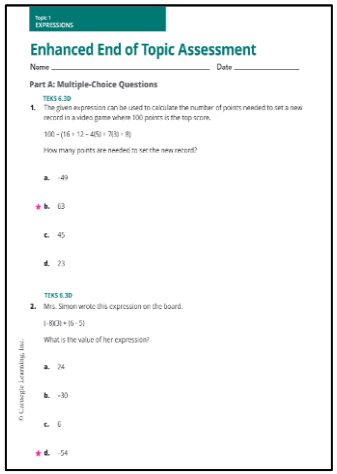
CSP - Carnegie Skills Practice

Curriculum Map – Mathematics

Grade: 6th **Subject: Math** **Topic: 1** **Title: Expressions**

Topic Assessment



Topic 1
EXPRESSIONS

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Part A: Multiple-Choice Questions

TEKS 6.3D

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$100 - (16 \div 12 - 4)(5) + 7(3) \div 8)$

How many points are needed to set the new record?

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TEKS 6.3D

2. Mrs. Simon wrote this expression on the board.

$(-8)(3) + (6 - 5)$

What is the value of her expression?

a. 24

b. -30

c. 6

★ d. -54

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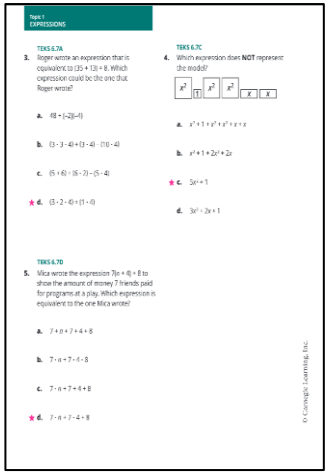

Topic 1
EXPRESSIONS

TEKS 6.7A

3. Roger wrote an expression that is equivalent to $(3 \cdot 5) + 7(3 \div 8)$. Which expression could be the one that Roger wrote?

a. $48 \div (-2)(-4)$

b. $(3 \cdot 3 \cdot 4) + (3 \cdot 4) \cdot (10 \cdot 4)$

c. $(5 \div 6) \div (6 \cdot 2) \cdot (5 \cdot 4)$

★ d. $(3 \cdot 2 \cdot 4) + (1 \cdot 4)$

TEKS 6.7C

4. Which expression does **NOT** represent the model?

a. $x^3 + 1 + x^3 + x^3 + x + x$

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★ c. $5x^3 + 1$

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TEKS 6.7D

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b. $7 \cdot n + 7 \cdot 4 + 8$

c. $7 \cdot n + 7 + 4 + 8$

★ d. $7 \cdot n + 7 \cdot 4 + 8$

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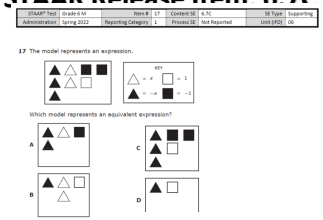
TEKS Bundle

6.7 A, B, C, D

STAAR Release Item: 6.7C



STAAR® Test	Grade 6 M	Item #	17	Content SE	6.7C	SE Type	Supporting
Administration	Spring 2022	Reporting Category	1	Process SE	Not Reported	Unit (IFD)	06

17 The model represents an expression.

Which model represents an equivalent expression?

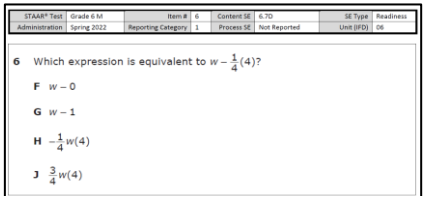
A

C

B

D

STAAR Release Item: 6.7D



STAAR® Test	Grade 6 M	Item #	6	Content SE	6.7D	SE Type	Readiness
Administration	Spring 2022	Reporting Category	1	Process SE	Not Reported	Unit (IFD)	06

6 Which expression is equivalent to $w - \frac{1}{4}(4)$?

F $w - 0$

G $w - 1$

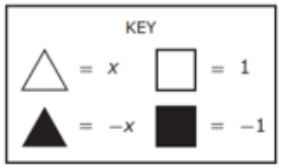
H $-\frac{1}{4}w(4)$

J $\frac{3}{4}w(4)$

CSP - Carnegie Skills Practice

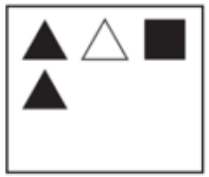
STAAR® Test	Grade 6 M	Item #	17	Content SE	6.7C	
Administration	Spring 2022	Reporting Category	1	Process SE	Not Reported	

17 The model represents an expression.

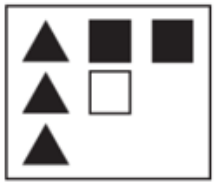


Which model represents an equivalent expression?

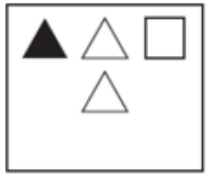
A



C



B



D

CSP - Carnegie Skills Practice

SE Type	Supporting
Unit (IFD)	06