



DEPARTMENT OF EDUCATION

PAWS
Mathematics
Grade 6
Released Items
With Data

The Number System

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Mathematics Released Items with Data Introduction Page / Data Definitions

This Released Items with Data document provides a subset of items from the 2015 administration of the PAWS test. The data for an item is on the page that follows that item. The following provides definitions for the data fields on the data page.

Item Information

Title: Title of the passage/stimulus the item belongs to

2012 WyCPS Domain: The reporting category of the state content standards

2012 WyCPS Standard: State content standard

Item Code: Identification code assigned to the item

Admin: The year an item is administered

Item Type: The mode in which a student responds (MC means multiple-choice)

Correct Answer: The option letter (A, B, C, or D) that corresponds to the correct answer

Item Dok: The item's Depth of Knowledge designation, also called Cognitive Complexity;

- 1 - Recall and reproduction
- 2 - Skills and concepts
- 3 - Strategic and extended thinking

Total N-count: Number of students counted as taking the test in which the item appears during the listed administration (Includes item omissions)

Pvalue/Mean Score: For a multiple-choice item, the percent of students choosing the correct answer

Score Analysis

MC Row: Answer options available for students to choose from (including those who do not choose any option); an asterisk designates the correct answer

%Choosing Row: Percent of students choosing an option (or omitting)

Item Notes: Area where user can make notes

00 Kylie earns the same amount of money each week.

- She saves $\frac{1}{15}$ of her earnings each week.
- She saved \$330 over an 11-week period.

What is the amount of money Kylie earns each week?

- A) \$30
- B) \$45
- C) \$242
- D) \$450

| Item Information | | | | | |
|----------------------|---|-----------------|-----------|----------------|--------------------|
| 2012 WyCPS Domain: | The Number System | | | | |
| 2012 WyCPS Cluster: | Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. | | | | |
| 2012 WyCPS Standard: | 7.NS.3 Solve real-world and mathematical problems involving the four operations with rational numbers. (Computations with rational numbers extend the rules for manipulating fractions to complex fractions.) | | | | |
| Item Code: | VF493004 | | | | |
| Admin: | Item Type: | Correct Answer: | Item Dok: | Total N-count: | Pvalue/Mean Score: |
| Spring 2013 | MC | D | 3 | 667 | 0.207 |

| Score Analysis | | | | | |
|----------------|--------|--------|--------|-------|------|
| MC | A | B | C | D* | Omit |
| %Choosing | 51.124 | 15.892 | 11.844 | 20.69 | 0.45 |

00 What is the value of the expression shown?

$$\left[(-5) \left(-\frac{3}{10} \right) \right] - [(-4)(0.18)]$$

- A) -2.22
- B) -0.78
- C) 0.78
- D) 2.22

| Item Information | |
|----------------------|---|
| 2012 WyCPS Domain: | The Number System |
| 2012 WyCPS Cluster: | Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. |
| 2012 WyCPS Standard: | 7.NS.3 Solve real-world and mathematical problems involving the four operations with rational numbers. (Computations with rational numbers extend the rules for manipulating fractions to complex fractions.) |
| Item Code: | VF493009 |

| Admin: | Item Type: | Correct Answer: | Item Dok: | Total N-count: | Pvalue/Mean Score: |
|-------------|------------|-----------------|-----------|----------------|--------------------|
| Spring 2013 | MC | D | 2 | 668 | 0.223 |

| Score Analysis | | | | | |
|----------------|--------|-------|--------|--------|------|
| MC | A | B | C | D* | Omit |
| %Choosing | 25.449 | 30.09 | 22.006 | 22.305 | 0.15 |

00 Jack made a batch of 12 cookies. He ate $\frac{1}{3}$ of the cookies and took the remaining cookies to school. He split the remaining cookies equally among 4 friends. What fraction of the total batch of cookies did each friend receive?

- A) $\frac{1}{3}$
- B) $\frac{1}{4}$
- C) $\frac{1}{6}$
- D) $\frac{1}{9}$

| Item Information | |
|----------------------|--|
| 2012 WyCPS Domain: | The Number System |
| 2012 WyCPS Cluster: | Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. |
| 2012 WyCPS Standard: | 7.NS.2 Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers. |
| Item Code: | VF813104 |

| Admin: | Item Type: | Correct Answer: | Item Dok: | Total N-count: | Pvalue/Mean Score: |
|-------------|------------|-----------------|-----------|----------------|--------------------|
| Spring 2014 | MC | C | 2 | 674 | 0.355 |

| Score Analysis | | | | | |
|----------------|--------|-------|-------|-------|-------|
| MC | A | B | C* | D | Omit |
| %Choosing | 13.947 | 43.62 | 35.46 | 6.677 | 0.297 |

00 Which value is not equivalent to $\left(\frac{-5}{9}\right)$?

A) $\left(\frac{5}{-9}\right)$

B) $-\left(\frac{5}{9}\right)$

C) $-\left(\frac{5}{-9}\right)$

D) $-\left(\frac{-5}{-9}\right)$

| Item Information | | | | | |
|----------------------|--|-----------------|-----------|----------------|--------------------|
| 2012 WyCPS Domain: | The Number System | | | | |
| 2012 WyCPS Cluster: | Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. | | | | |
| 2012 WyCPS Standard: | 7.NS.2 Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers. | | | | |
| Item Code: | VH129941 | | | | |
| Admin: | Item Type: | Correct Answer: | Item Dok: | Total N-count: | Pvalue/Mean Score: |
| Spring 2015 | MC | C | 1 | 689 | 0.179 |

| Score Analysis | | | | | |
|----------------|--------|--------|--------|--------|-------|
| MC | A | B | C* | D | Omit |
| %Choosing | 17.271 | 21.771 | 17.852 | 42.961 | 0.145 |