5th Grade Interim 2 Review Packet

Math Interim 2 2017-18 Assessment ID: ib.1418418

Directions: Answer the following question(s).

1) Juliette is building a treehouse. She needs 5 pounds of nails to make the treehouse. The table below shows how many nails she has bought so far.

DUE Tuesday Feb. 27 @ beginning of class

Day	Pounds of Nails bought
Monday	$\frac{3}{4}$
Tuesday	$\frac{3}{4}$
Wednesday	$1\frac{1}{3}$
Thursday	$1\frac{1}{3}$

How many more pounds of nails does Juliette need to buy? Enter your answer into the box.

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Directions: Answer the following question(s).

2) **Paula's flight arrived $1\frac{1}{2}$ hours late. How many seconds late did her flight arrive?**

A. 5400
B. 540
C. 180
D. 90

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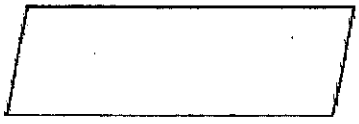
Directions: Answer the following question(s).

3) **Rudy wanted to draw a rhombus. Instead, he drew the figure below.**



Which sentence BEST explains why Rudy's drawing is NOT a rhombus?

A. A rhombus is a type of polygon.
B. A rhombus has exactly four sides.
C. A rhombus has four sides of equal length.
D. A rhombus has two pairs of parallel sides.

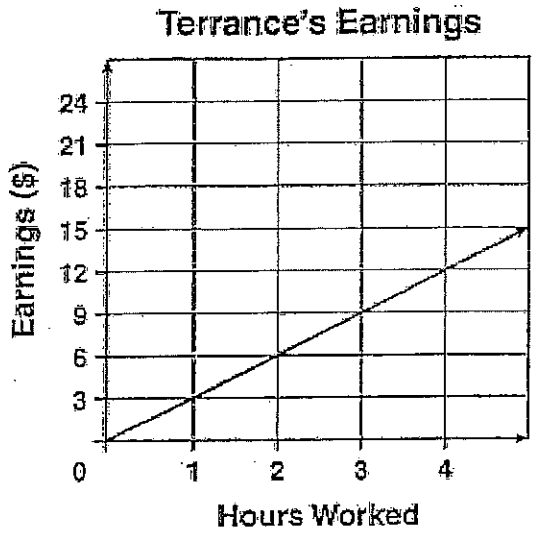
Directions: Answer the following question(s).

4) The table below shows how much Terrance will earn for working different numbers of hours.

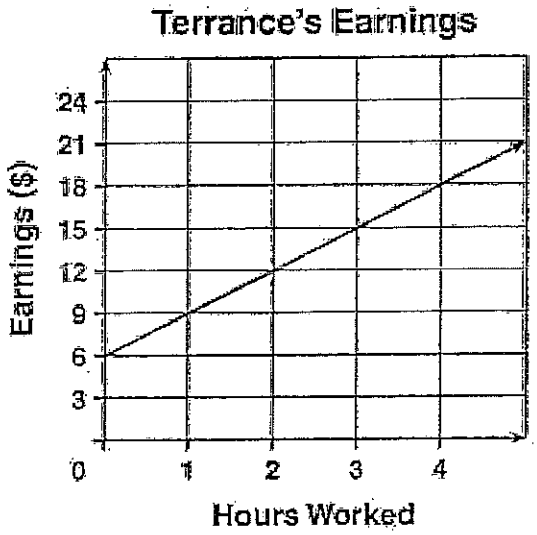
Terrance's Earnings	
Number of Hours Worked	Earnings
1	$6.00
2	$12.00
3	$18.00
4	$24.00

Which graph BEST represents the relationship in the table?

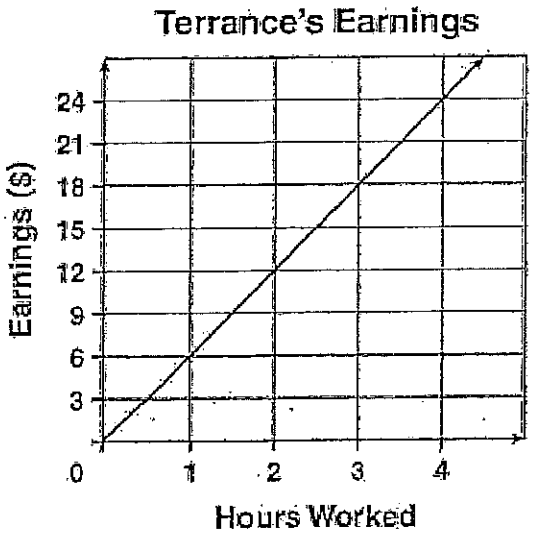
A.



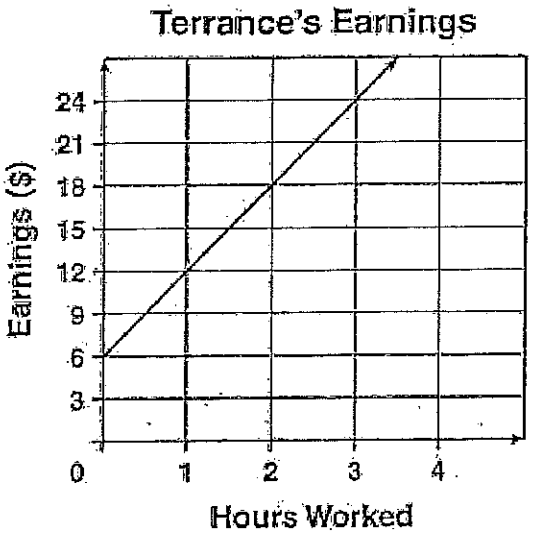
C.



B.



D.



Directions: Answer the following question(s).

5) A table of values for x and y is shown below.

x	y
0	3
1	5
2	7
3	9
4	11
5	13

Which rule can be used to describe the relationship between x and y in the table?

A. multiply by 3 and subtract 2
B. multiply by 2 and add 1
C. multiply by 2 and add 3
D. multiply by 3 and add 2

6) Mario had $8\frac{1}{5}$ yards of ribbon for a project. Sue gave him $2\frac{3}{4}$ more yards of ribbon. Which is closest to the number of yards of ribbon Mario had altogether?

A. 5 yards
B. 6 yards
C. 10 yards
D. 11 yards

7) Jill walked on Tuesday $3\frac{3}{5}$ miles. On Wednesday, she walked $1\frac{1}{4}$ less than on Tuesday. Which equation could be used to find the total number of miles Jill walked, w, on Tuesday and Wednesday?

A. $3\frac{3}{5} - 1\frac{1}{4} = w$

B. $3\frac{3}{5} + 1\frac{1}{4} = w$

C. $\left(3\frac{3}{5} - 1\frac{1}{4}\right) + 3\frac{3}{5} = w$

D. $\left(3\frac{3}{5} + 1\frac{1}{4}\right) + 3\frac{3}{5} = w$

Directions: Answer the following question(s).

8) **Pablo has 6 dogs.**

- **Pablo feeds these dogs a total of 20 pounds of dog food each week.**
- **Pablo feeds each dog an equal amount of dog food each time he feeds them.**

Which statement is true?

A. Each dog is fed $3\frac{1}{2}$ pounds of dog food each week.

B. Each dog is fed 7 pounds of dog food each week.

C. Each dog is fed between 3 and 4 pounds of dog food each week.

D. Each dog is fed between 0 and 1 pound of dog food each week.

9) **Find the product in SIMPLEST form:**

$$\frac{5}{18} \times \frac{8}{12} =$$

A. $\frac{13}{30}$

B. $\frac{60}{144}$

C. $\frac{20}{108}$

D. $\frac{5}{27}$

Directions: Answer the following question(s).

10) **Which of the following statements are true? Select three that apply.**

A. $\frac{3}{5} \times \frac{1}{5}$ is less than $\frac{3}{5}$, since $\frac{3}{5}$ is being multiplied by a value less than 1

B. $\frac{3}{5} \times \frac{3}{5}$ is equal to $\frac{3}{5}$, since $\frac{3}{5}$ is being multiplied by a value equal to $\frac{3}{5}$

C. $\frac{3}{5} \times \frac{4}{5}$ is greater than $\frac{3}{5}$, since $\frac{3}{5}$ is being multiplied by a value greater than $\frac{3}{5}$

D. $\frac{3}{5} \times \frac{4}{5}$ is less than $\frac{4}{5}$, since $\frac{4}{5}$ is being multiplied by a value less than 1

E. $\frac{3}{5} \times \frac{5}{5}$ is greater than $\frac{3}{5}$ since both the numerator and denominator are being multiplied by a value greater than 1

F. $\frac{3}{5} \times \frac{6}{5}$ is greater than $\frac{3}{5}$, since $\frac{3}{5}$ is being multiplied by a value greater than 1

11) **Henry can choose from two different plans for his new garden. Plan A has a length of 4 feet and a width of $2\frac{2}{3}$ feet. Plan B has a length of 5 feet and a width of $1\frac{1}{2}$ feet. Which plan will give Henry a larger garden? Show your work.**

12) **Four students solved the problem $\frac{1}{5} \div 4$. The work of each student is shown on the table.**

Wyatt	Caden	Emily	Sarah
$\frac{5}{1} \times \frac{4}{1} = \frac{20}{1}$	$\frac{1}{5} \times \frac{1}{4} = \frac{1}{20}$	$\frac{1}{5} \times \frac{4}{1} = \frac{4}{5}$	$\frac{5}{1} \times \frac{1}{4} = \frac{5}{4}$

Who solved the problem correctly and why?

A. Wyatt, because he multiplied by the reciprocal of the first number.
B. Caden, because he multiplied by the reciprocal of the second number.
C. Emily, because she multiplied both numerators and both denominators.
D. Sarah, because she multiplied by the reciprocals of both numbers.

13) If 5 people shared $\frac{1}{3}$ of a ton of rocks, how much will each person get?

A. 15 tons

B. $5\frac{1}{3}$ tons

C. $1\frac{2}{3}$ tons

D. $\frac{1}{15}$ of a ton

14) Jim needs $\frac{1}{2}$ minute on average to complete a multiplication problem on a test. If he continues working at this pace and completes the test in 20 minutes, about how many problems were on the test?

A. 10

B. 20

C. 40

D. 60

15) Jimmy measured 3 feet 7 inches tall in May. In October, he measured 4 feet 3 inches tall. How much did Jimmy grow from May to October?

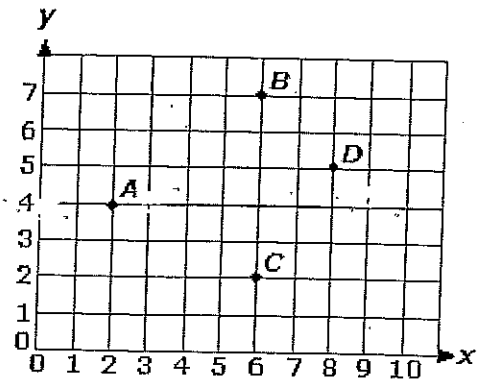
A. 8 inches

B. 10 inches

C. 1 foot

D. 16 inches

16) Which of the following statements about the coordinate plane below are correct? Select *two* that apply.



A. The *x*–coordinate for Point *A* is 4.

B. The *y*–coordinate for Point *B* is 6.

C. The *x*–coordinate for Point *C* is 6.

D. The *y*–coordinate for Point *D* is 5.

Directions: Answer the following question(s).

17) How many cubic centimeters are in 135 mm^3?

A. 0.135 cm^3

B. 13.5 cm^3

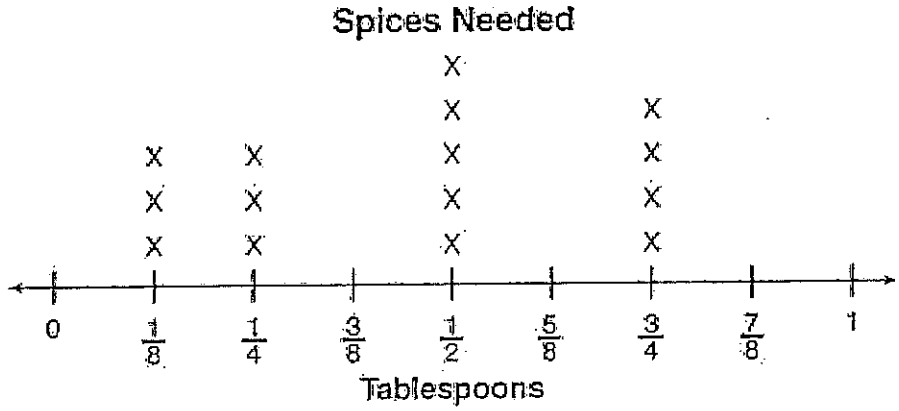
C. 1,350 cm^3

D. 135,000 cm^3

18) Enter the number of cups equal to $4\frac{1}{2}$ quarts.

_____ cups

19) Nikki is using a recipe. The line plot shows the different measurements of spices she needs in fractions of a tablespoon.



What is the total number of tablespoons of spices Nikki will need for the recipe?

A. $2\frac{7}{8}$

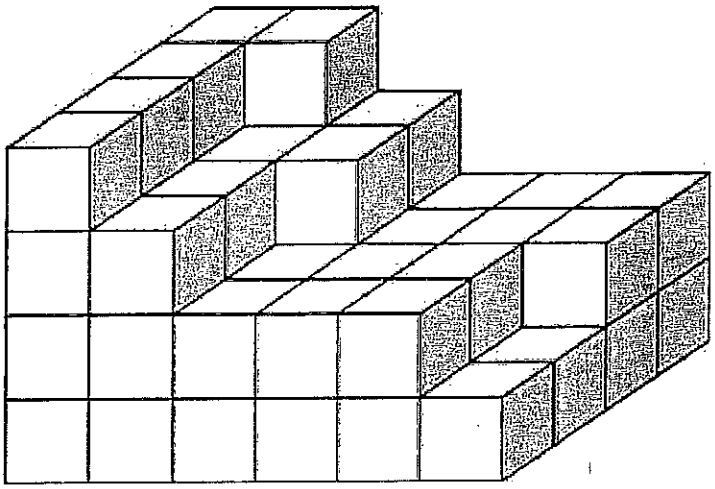
B. $4\frac{1}{2}$

C. $5\frac{3}{4}$

D. $6\frac{5}{8}$

Directions: Answer the following question(s).

20) 3 **Henry created the model below using 1-centimeter cubes.**



What is the volume of this model, in cubic centimeters?

A. 96 cm^3

B. 61 cm^3

C. 41 cm^3

D. 35 cm^3

21) 2 **Part A:**
Mr. Bruno has a box that has a length of 15 inches, a width of 4 inches, and a height of 2 inches.

What is the volume of Mr. Bruno's box?

Part B:
He wants to make another box that has the same volume, but has different dimensions.

What different dimensions can Mr. Bruno use to create a box that has the same volume? Include the length, width, and height of the box.

Part C:
How do you know the two boxes have the same volume? Use pictures, words, and/or numbers to explain your answer.