



# **RELEASED ITEMS**

**MATHEMATICS  
GRADE 8**

**Fall 2007**

**MICHIGAN STATE BOARD OF EDUCATION  
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**MEAP GRADE 8 MATHEMATICS TEST**  
Reference Sheet

Use this information as needed to answer questions on the MEAP Grade 8 Test.

**Miscellaneous**

Distance = rate × time

Interest = principal × rate × time

$$\pi \approx 3.14$$

**Algebra**

Straight Line:  $y = mx + b$

If  $(x_1, y_1)$  and  $(x_2, y_2)$  are on a line, then

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

**Area**



Triangle:

$$A = \frac{1}{2}(\text{base}) \times \text{height}$$



Rectangle:

$$A = \text{base} \times \text{height}$$



Trapezoid:

$$A = \frac{1}{2}(\text{sum of the bases}) \times \text{height}$$



Parallelogram:

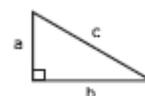
$$A = \text{base} \times \text{height}$$



Circle:

$$A = \pi r^2 \quad \text{Circumference} = 2\pi r = \pi d$$

**Right Triangles**



$$a^2 + b^2 = c^2$$

Total Surface Area		Volume	
Cylinder:	SA = circumference of the base × height + $2\pi r^2$		$V = \pi r^2 \times \text{height}$
Cube:	SA = $6 \times (\text{length of edge})^2$		$V = (\text{length of edge})^3$
Pyramid:	SA = $\frac{1}{2}$ (perimeter of base) × (slant height) + area of the base		$V = \frac{1}{3}$ (area of base) × (altitude)
Sphere:	SA = $4\pi r^2$		$V = \frac{4}{3} \pi r^3$
Cone:	SA = $\frac{1}{2}$ (circumference of base) × (slant height) + $\pi r^2$		$V = \frac{1}{3} \pi r^2 \times \text{height}$
Prism:	SA = sum of the area of the faces		$V = \text{area of base} \times \text{height}$

# PART 1

## DIRECTIONS

This test has three parts. You may **NOT** use a calculator on the first part. You may use open space in this test booklet for scratch paper. No additional sheets may be used.

**There are two types of items on this test: multiple-choice and open-ended.**

1. Multiple-choice items will require you to choose the best answer from among four answer choices. For these items, use only a No. 2 pencil to mark your answer in your **Answer Document**. If you erase an answer, be sure to erase it completely. If you skip an item, be sure to mark the answer to the next item in the correct place in your **Answer Document**.
2. One open-ended item will be found in your test booklet and require you to write, explain, or show your work. For this item, show all of your work neatly and clearly in the space provided in your **Answer Document** using a No. 2 pencil.

### Sample Multiple-Choice Item:

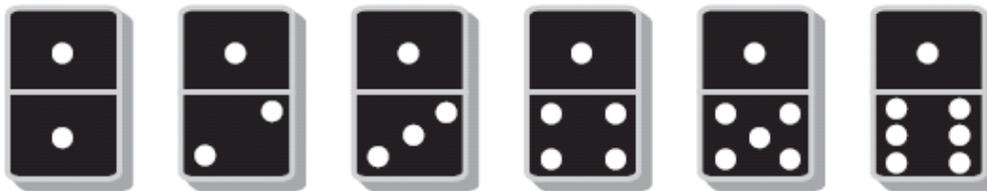
Marty wants to put 75 CDs into cases. Each case holds exactly 8 CDs. What is the *least* number of cases that Marty will need to hold all his CDs?

- A 8
- B 9
- C 10
- D 11

For this sample item, the correct answer is **C**. Circle **C** is filled in on the sample item in your **Answer Document**.

**Sample Open-Ended Item:**

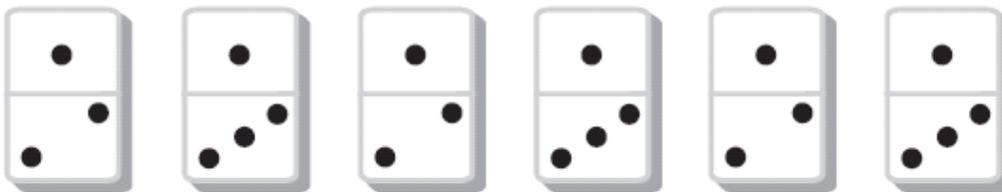
Solve the following problem.



**A** What pattern do these dominoes display?

**They all have one on top. At the bottom it starts with one and keeps adding one until it reaches six.**

**B** Draw another domino pattern different from the one above.



**C** Describe the pattern you drew.

**On the first, third, and fifth dominoes, I drew one on top and two on bottom. On the second, fourth, and sixth, I put one on top and three on the bottom.**

For this sample item, you would answer Part A by explaining that they all have one on top. At the bottom it starts with one and keeps adding one on each consecutive domino. For Part B, you would draw a different domino pattern than the one above. Remember to show your work. For Part C, you would explain or describe the pattern you drew.

You will have at least 30 minutes to finish Part 1 of this test. You will be given additional time if necessary.

1. Once you have reached the word **STOP** in your test booklet, do **NOT** go on to the next page.
2. If you finish early, you may check your work in Part 1 of the test **ONLY**. Do **NOT** look at items in other parts of the test.

If you do not understand any of these directions, please raise your hand.

1 Divide  $-108 \div -9$

A -117

B -12

C 12

D 117

2 Add, subtract, multiply & divide rational numbers

A switched addition and multiplication

B negative times negative equals negative

C subtracted instead of added

D correct

3 Multiply  $-\frac{4}{5} \cdot -\frac{1}{3}$

A  $-\frac{5}{8}$

B  $-\frac{4}{15}$

C  $\frac{4}{15}$

D  $\frac{5}{8}$

4 Estimate results of computations with rational numbers

- A correct
- B correct sign, poor estimate
- C incorrect sign, poor estimate
- D negative times positive equals positive

5 Which of the following is *closest* to the value of the expression below?

$$-71.83 \div -9.26$$

- A -10
- B -8
- C 8
- D 10

6 Estimate results of computations with rational numbers

- A correct sign, poor estimate
- B correct
- C incorrect sign
- D correct sign, poor estimate

## PART 2

### DIRECTIONS

You will now begin Part 2 of this test. You may use a calculator on this part of the test, and you may use open space in this test booklet for scratch paper. No additional sheets may be used.

If you finish early, you may check your work for Part 2 **ONLY**.

Do **NOT** look at items in other parts of this test.

You will have at least 50 minutes to finish Part 2 of this test.

- 7 Stefan rode a bike a total of 17.5 miles in 7 hours at a constant speed. What was Stefan's speed?
- A 0.4 mile per hour
  - B 2.5 miles per hour
  - C 10.5 miles per hour
  - D 24.5 miles per hour
- 8 Calculate rates of change, including speed
- A time/unit
  - B correct
  - C subtracted
  - D added
- 9 Sara ran a 10-kilometer race in 1.25 hours at a constant rate. At what rate did she run the race?
- A 8.00 kilometers per hour
  - B 8.75 kilometers per hour
  - C 10.00 kilometers per hour
  - D 11.25 kilometers per hour
- 10 Convert ratio quantities between systems of units
- A place value error
  - B correct
  - C place value error
  - D place value error

- 11 Michael walks at a rate of 6 feet per second. Which is closest to this rate in miles per hour?

$$\left( \begin{array}{l} 1 \text{ mile} = 5,280 \text{ feet} \\ 1 \text{ hour} = 3,600 \text{ seconds} \end{array} \right)$$

- A 3.0
- B 3.5
- C 4.0
- D 4.5
- 12 Convert ratio quantities between systems of units
- A incorrect divisor, incorrect dividend
- B correct
- C place value error
- D incorrect divisor
- 13 Jeremy has exactly \$100 saved. Starting today, he will earn \$8 a week for doing chores. Jeremy plans to save all of his money. Which equation *best* represents,  $y$ , the total amount of money he should have saved after  $x$  weeks?
- A  $y = 8x$
- B  $y = 100x$
- C  $y = 8x + 100$
- D  $y = 100x + 8$
- 14 Show linear relationships with tables, graphs, formulas
- A additive inverse of slope
- B correct
- C some correct values, some incorrect values in table
- D some correct values, some incorrect values in table

- 15 The table below shows some information about a car driving at a constant speed on an interstate highway.

**Distance vs. Time**

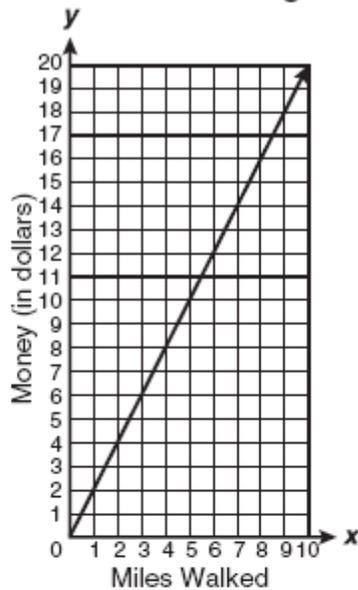
Time (in hours)	0.5	1.0	1.5	2.0	2.5	3.0
Distance (in miles)	30	60	90	120	150	180

Which equation represents the relationship shown in the table between,  $d$ , distance, and,  $t$ , time?

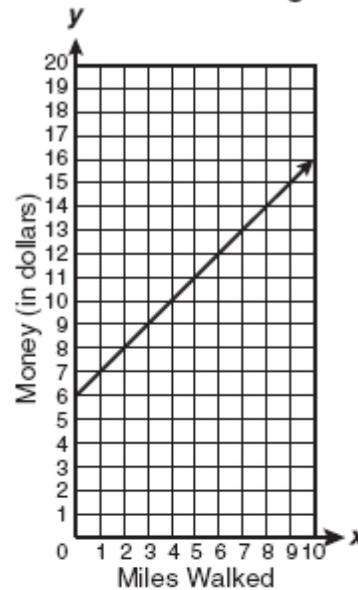
- A  $d = 0.5t$
  - B  $d = 1t$
  - C  $d = 30t$
  - D  $d = 60t$
- 16 Solve applied linear problems with graphs, equations
- A maximum value on x-axis
  - B correct
  - C incorrect computation
  - D maximum value on y-axis

- 17 A walkathon requires \$6 to enter and \$1 for each mile completed. Which of the following graphs shows this relationship?

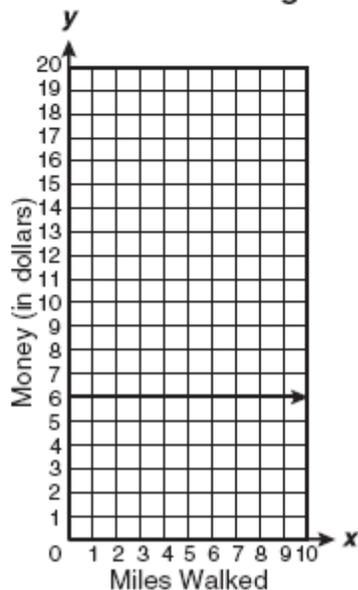
**A** Walkathon Pledges



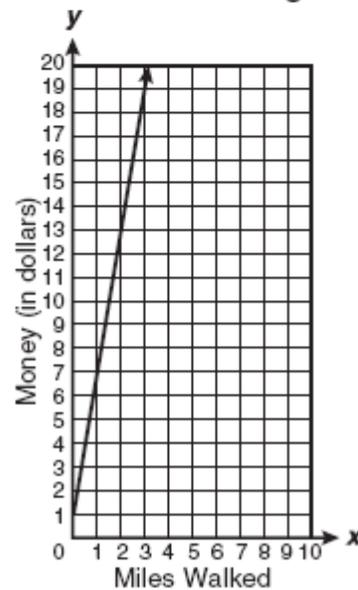
**B** Walkathon Pledges



**C** Walkathon Pledges



**D** Walkathon Pledges



**18** Solve applied linear problems with graphs, equations

**A** incorrect graph

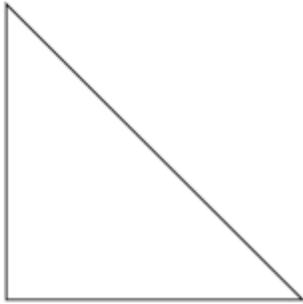
**B** correct

**C** incorrect graph

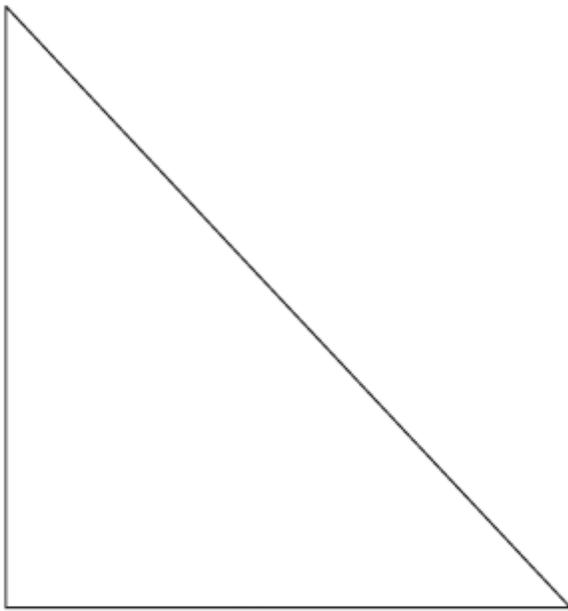
**D** incorrect graph

19 Which *best* represents a triangle with two sides that are equal in length?

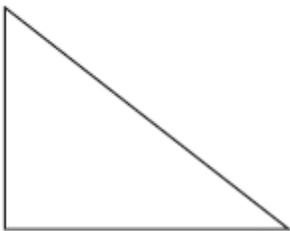
A



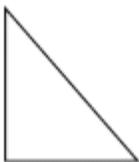
B



C



D

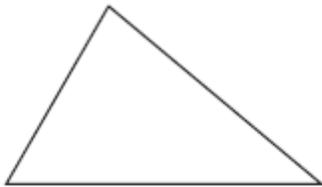


20 Use ruler, other tools to draw polygons

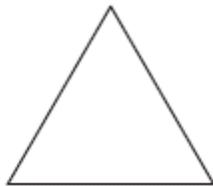
- A incorrect measurement
- B incorrect measurement
- C incorrect measurement
- D correct

21 Which triangle has angles that appear to measure  $50^\circ$ ,  $40^\circ$ , and  $90^\circ$ ?

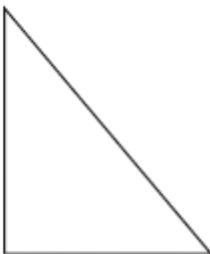
A



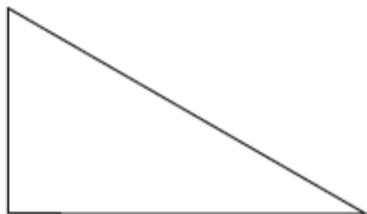
B



C



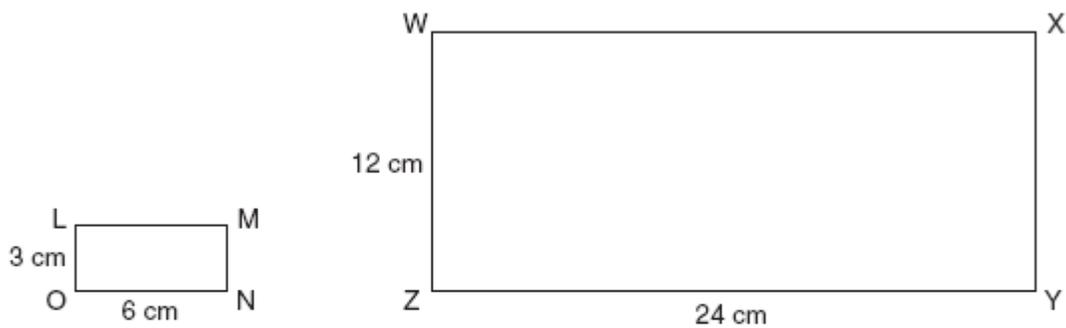
D



22 Know properties of similar figures and scale factor

- A incorrect angle
- B incorrect angle
- C incorrect angle
- D correct

23 Rectangle LMNO is similar to rectangle WXYZ.



What is the scale factor from rectangle LMNO to rectangle WXYZ?

- A 2
- B 4
- C 9
- D 18

24 Know properties of similar figures and scale factor

- A incorrect statement about similar figures
- B incorrect statement about similar figures
- C correct
- D incorrect statement about similar figures

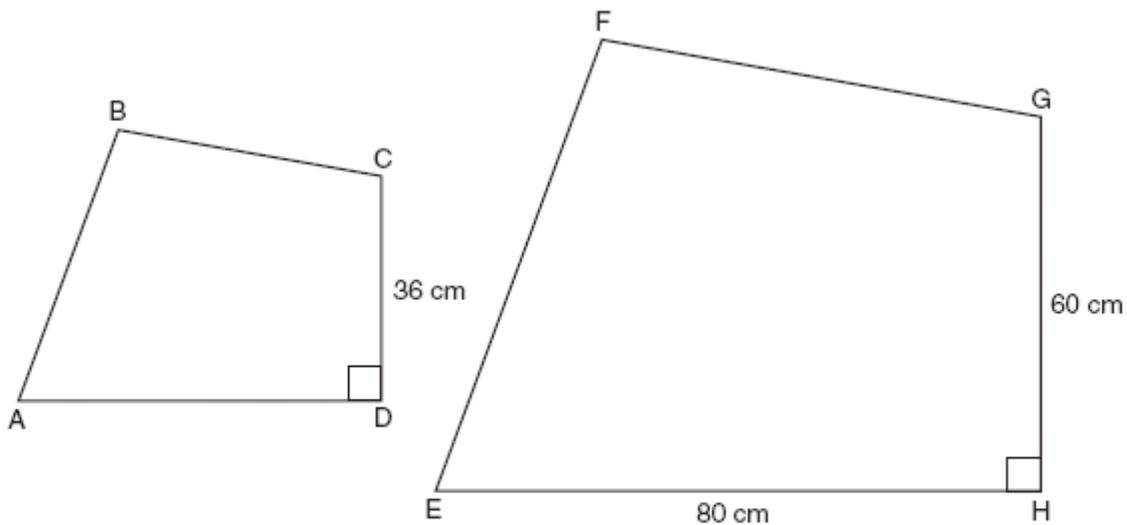
25 A model car is built using a scale of 1 centimeter represents 2 feet. If the length of the model car is 5.5 centimeters, what is the length of the actual car?

- A 3.0 ft
- B 5.5 ft
- C 7.5 ft
- D 11.0 ft

26 Solve problems of similar figures, scale drawings

- A incorrect use of scale
- B correct
- C incorrect use of scale
- D incorrect use of scale

27 Quadrilateral ABCD and quadrilateral EFGH are similar. What is the length of  $\overline{AD}$  in centimeters?



- A 16
- B 27
- C 48
- D 56

28 Create, select, interpret graphical representations

- A did not include all histogram bars within range
- B did not include all histogram bars within range
- C did not include all histogram bars within range
- D correct

29 Li Min recorded the number of customers that came to her lemonade stand each day. The results are displayed in the stem and leaf plot below.

Number of Customers

Stem	Leaf
1	0 3 3 7
2	6 8
3	2 3 7
4	1

<b>Key</b>
2   6 represents 26

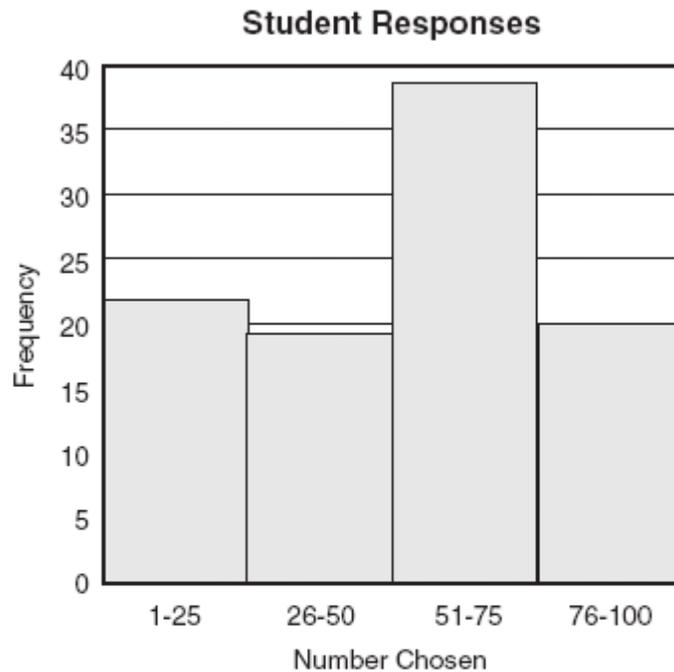
What was the range for the number of customers?

- A 13
- B 25
- C 27
- D 31

30 Create, select, interpret graphical representations

- A correct
- B incorrect interpretation of circle graph
- C incorrect interpretation of circle graph
- D incorrect interpretation of circle graph

- 31 Daniel asked 100 students in his school’s cafeteria to name a whole number between 1 and 100. The students’ responses are shown in the histogram below.



What is the relative frequency of students who named a number *greater* than 75?

- A 0.20
  - B 0.35
  - C 0.75
  - D 0.80
- 32 Interpret relative & cumulative frequencies
- A one category, not accumulative
  - B one category, not accumulative
  - C one category, not accumulative
  - D correct

- 33 Mrs. Lee asked the 25 students in her class to choose their favorite color. The responses she received are in the table below.

**Students' Favorite Color**

Favorite Color	Number of Students
Red	5
Orange	2
Blue	7
Green	10
Purple	1

What is the relative frequency of students who chose red as their favorite color?

- A 0.25
- B 0.20
- C 0.10
- D 0.05

## PART 3

### DIRECTIONS

You will now begin Part 3 of this test. You may use a calculator on this part of the test, and you may use open space in this test booklet for scratch paper. No additional sheets may be used.

If you finish early, you may check your work for Part 3 **ONLY**.

Do **NOT** look at items in other parts of this test.

You will have at least 50 minutes to finish Part 3 of this test.

- 34** Solve proportion problems
- A** unit rate, not subtotal
  - B** incorrect unit rate
  - C** correct
  - D** incorrect subtotal
- 35** Jake is making lemonade for the school picnic. It takes 4 pints of lemonade mix to serve 15 students. At that rate, how many pints of lemonade mix would be needed to serve 150 students?
- A** 40
  - B** 60
  - C** 210
  - D** 600
- 36** Solve proportion problems
- A** added two of given numbers
  - B** correct
  - C** subtracted two of given numbers
  - D** added three given numbers
- 37** The square root of 75 is between which two numbers?
- A** 4 and 5
  - B** 8 and 9
  - C** 18 and 19
  - D** 37 and 38

- 38 Understand the concept of square root and cube root
- A correct
  - B square root
  - C two-thirds power
  - D one-third, not cube root
- 39 The area of a square floor is 705 square feet. Which is *closest* to the length of each side of the floor?
- A between 352 and 353 feet
  - B between 176 and 177 feet
  - C between 24 and 25 feet
  - D between 26 and 27 feet
- 40 Solve problems involving operations with integers
- A sum of addends as all negative numbers
  - B one addend, not sum
  - C correct
  - D sum of absolute value of addends
- 41 The temperature at sunrise on Tuesday was  $-4^{\circ}\text{C}$ . It increased  $12^{\circ}\text{C}$  by noon. What was the temperature at noon?
- A  $-16^{\circ}\text{C}$
  - B  $-8^{\circ}\text{C}$
  - C  $8^{\circ}\text{C}$
  - D  $16^{\circ}\text{C}$

42 Solve problems involving operations with integers

- A one missing addend
- B sum of absolute value of addends, one missing addend
- C correct
- D sum of absolute value of addends

43 What is the additive inverse of 7?

- A 7
- B 1
- C 0
- D -7

44 Understand & use basic properties of real numbers

- A correct
- B incorrect property
- C incorrect property
- D incorrect property

45 What is the multiplicative inverse of 4?

- A -4
- B 1
- C  $\frac{1}{4}$
- D  $-\frac{1}{4}$

46 Compute simple linear algebraic expressions

- A multiplied variables
- B incorrect addition/subtraction
- C incorrect addition/subtraction
- D correct

47 Which expression is equivalent to the following?

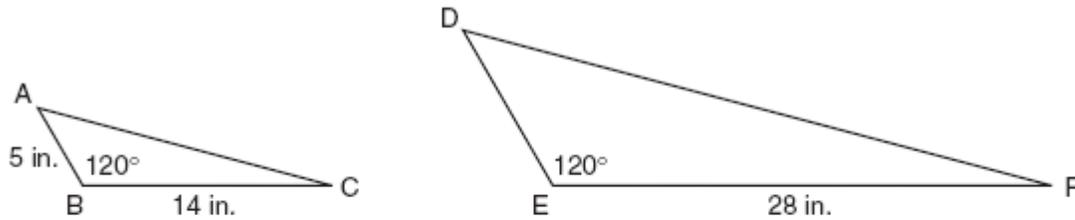
$$3(8x - 2y + 7)$$

- A  $24x - 2y + 7$
- B  $24x - 6y + 21$
- C  $8x - 6y + 21$
- D  $11x - 5y + 10$

48 Compute simple linear algebraic expressions

- A incorrect addition/subtraction
- B incorrect addition/subtraction
- C incorrect addition/subtraction
- D correct

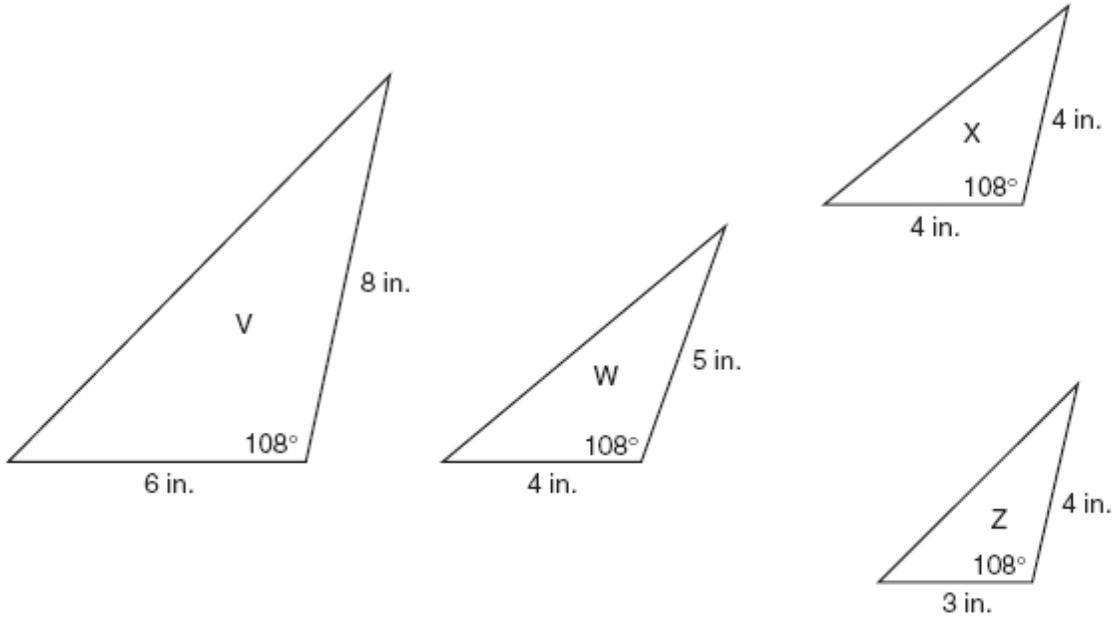
49 The diagram shows some measurements of triangle ABC and triangle DEF.



For triangle ABC and triangle DEF to be similar, which must be true?

- A DF = 10 inches
  - B DF = 19 inches
  - C DE = 10 inches
  - D DE = 19 inches
- 50 Show similarity of triangles using properties
- A correct
  - B incorrect theorem
  - C incorrect theorem
  - D incorrect theorem

- 51 The largest angle in all of the triangles below measures  $108^\circ$ . Which two triangles are similar to each other?



- A V and W
- B W and Z
- C W and X
- D V and Z

- 52 Use similarity of triangles and scale factor
- A used  $r$  as scale factor for area
  - B multiplied area of smaller triangle by 3
  - C correct
  - D squared area of smaller triangle
- 53 Triangle ABC is similar to triangle DEF. The length of each side of triangle DEF is 3 times longer than the lengths of the corresponding sides of triangle ABC. Which statement is true?
- A The area of triangle DEF is equal to the area of triangle ABC.
  - B The area of triangle DEF is 3 times larger than the area of triangle ABC.
  - C The area of triangle DEF is 6 times larger than the area of triangle ABC.
  - D The area of triangle DEF is 9 times larger than the area of triangle ABC.
- 54 Use similarity of triangles and scale factor
- A double the correct area
  - B correct
  - C squared area of smaller triangle
  - D used  $r$  as scale factor for area

55 What is the median of the set of data shown below?

Stem	Leaf
1	3 4
2	1 3 6 7
3	2 4 6 6 8
4	0 1 2 2

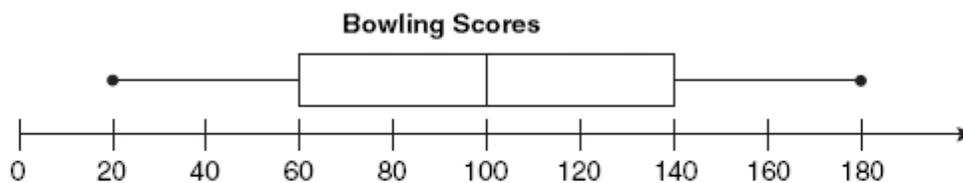
Key	
3   2	represents 32

- A 29
- B 31
- C 34
- D 36

56 Find, interpret the median, quartiles, and IQR

- A correct
- B  $(Q3 + Q1)/2$
- C median of points beyond whickers
- D  $(\text{maximum} + \text{minimum})/2$

57 Which appears to be the interquartile range for the data used to create the following box-and-whisker plot?



- A 60
- B 80
- C 100
- D 160

58 Find and interpret x- and y-intercepts

- A correct
- B x-intercept reflected across y-axis
- C y-intercept rotated about origin
- D y-intercept

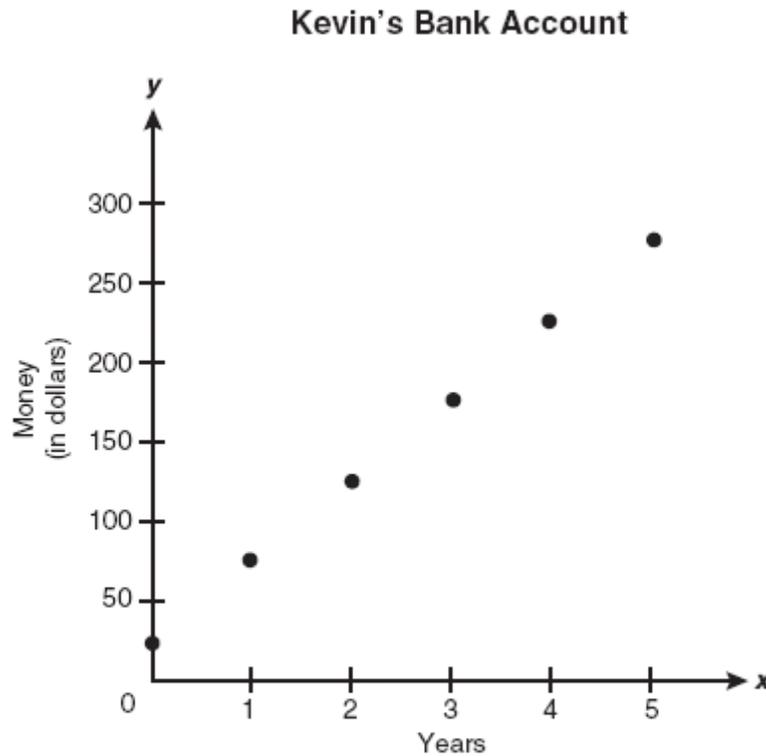
59 Mia's Bike Shop rents skates for \$3.00 per hour plus a \$5.00 fee. Marcie has exactly \$14.00. Which equation could Marcie use to determine,  $x$ , the total number of hours for which she could rent a pair of skates?

- A  $5x + 3 = 14$
- B  $3x + 5 = 14$
- C  $3x + 5x = 14$
- D  $5 + 3 = 14x$

60 Recognize proportional or linear relationships

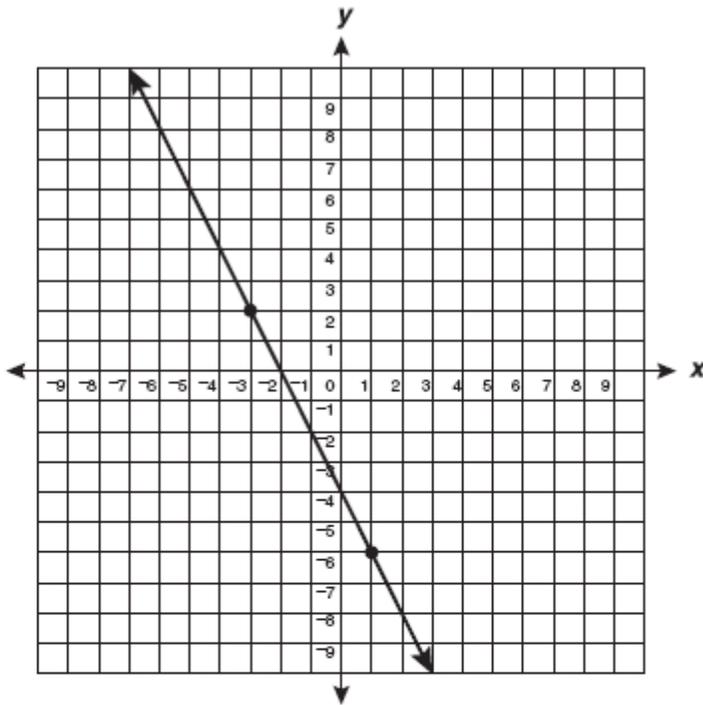
- A correct
- B linear
- C neither proportional nor linear
- D linear

- 61 Starting the year he was born, Kevin's parents have put money into his bank account every year. Based on the graph below, which statement *best* describes the amounts of money Kevin's parents have put in the bank account?



- A \$25 at birth and \$25 each year  
B \$25 at birth and \$50 each year  
C \$50 at birth and \$25 each year  
D \$50 at birth and \$50 each year
- 62 Use proportional & linear relationships
- A divided instead of multiplied  
B divided instead of multiplied  
C reciprocal  
D correct

63 Which appears to be the slope of the line graphed on the grid below?



- A -2
- B  $-\frac{1}{2}$
- C  $\frac{1}{2}$
- D 2

64 Graph linear equations, interpret slope, y-intercept

- A correct
- B y-intercept rotated about origin
- C (0, x-coefficient)
- D (x-coefficient, 0)

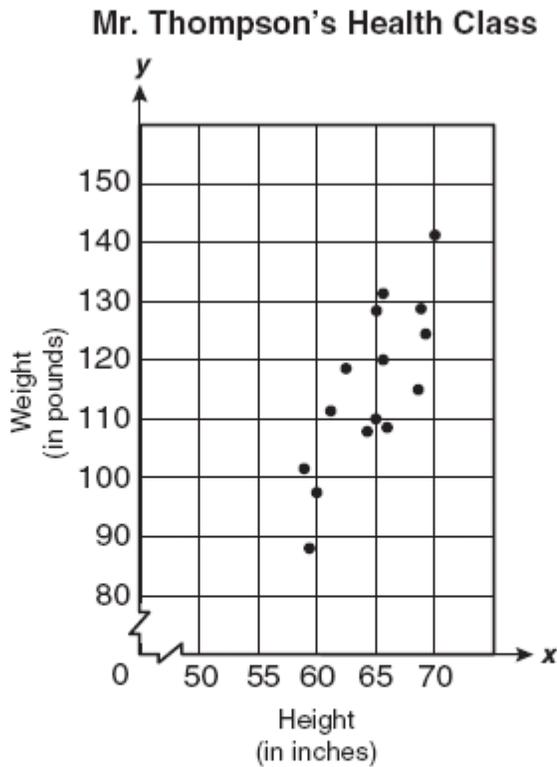
65 The area of a rectangle is 78 square meters. The width of the rectangle measures 6.5 meters. What is the length, in meters, of the rectangle?

- A 8.8
- B 12.0
- C 19.5
- D 39.0

66 Know properties of the graph of  $y = k/x$

- A equation represents graph of line with positive slope
- B equation represents graph of line with negative slope
- C equation represents graph of line with positive slope
- D correct

- 67 The scatter plot below shows the relationship between the height and the weight for each of 15 students in Mr. Thompson’s health class.



According to the scatter plot, which is closest to the height of a student who weighs approximately 115 pounds?

- A 56 inches
  - B 59 inches
  - C 67 inches
  - D 75 inches
- 68 Solve problems involving derived quantities
- A correct
  - B subtracted instead of divided
  - C added
  - D multiplied

## Scoring Key: Part 1

Item No.	Correct Answer	GLCE	Type	Description
1	C	N.FL.07.08	Core - NC	Add, subtract, multiply & divide rational numbers
2	D	N.FL.07.08	Core - NC	Add, subtract, multiply & divide rational numbers
3	C	N.FL.07.08	Core - NC	Add, subtract, multiply & divide rational numbers
4	A	N.FL.07.09	Core - NC	Estimate results of computations with rationals
5	C	N.FL.07.09	Core- NC	Estimate results of computations with rationals
6	B	N.FL.07.09	Core- NC	Estimate results of computations with rationals

NC=Non Calculator

## Scoring Key: Part 2

Item No.	Correct Answer	GLCE	Type	Description
7	B	N.FL.07.03	Core	Calculate rates of change, including speed
8	B	N.FL.07.03	Core	Calculate rates of change, including speed
9	A	N.FL.07.03	Core	Calculate rates of change, including speed
10	B	N.MR.07.04	Core	Convert ratio quantities between systems of units
11	C	N.MR.07.04	Core	Convert ratio quantities between systems of units
12	B	N.MR.07.04	Core	Convert ratio quantities between systems of units
13	C	A.RP.07.02	Core	Show linear relats. w/ tables, graphs, formulas
14	B	A.RP.07.02	Core	Show linear relats. w/ tables, graphs, formulas
15	D	A.RP.07.02	Core	Show linear relats. w/ tables, graphs, formulas
16	B	A.PA.07.04	Core	Solve applied linear problems w/ graphs, equations
17	B	A.PA.07.04	Core	Solve applied linear problems w/ graphs, equations
18	B	A.PA.07.04	Core	Solve applied linear problems w/ graphs, equations
19	A	G.SR.07.01	Core	Use ruler, other tools to draw polygons
20	D	G.SR.07.01	Core	Use ruler, other tools to draw polygons
21	C	G.SR.07.01	Core	Use ruler, other tools to draw polygons
22	D	G.TR.07.03	Core	Know properties of similar figures and scale factor.
23	B	G.TR.07.03	Core	Know properties of similar figures and scale factor.
24	C	G.TR.07.03	Core	Know properties of similar figures and scale factor.
25	D	G.TR.07.04	Core	Solve problems of similar figures, scale drawings
26	B	G.TR.07.04	Core	Solve problems of similar figures, scale drawings
27	C	G.TR.07.04	Core	Solve problems of similar figures, scale drawings
28	D	D.RE.07.01	Core	Create, select, interpret graphical representations
29	D	D.RE.07.01	Core	Create, select, interpret graphical representations
30	A	D.RE.07.01	Core	Create, select, interpret graphical representations
31	A	D.AN.07.03	Core	Interpret relative & cumulative frequencies
32	D	D.AN.07.03	Core	Interpret relative & cumulative frequencies
33	B	D.AN.07.03	Core	Interpret relative & cumulative frequencies

## Scoring Key: Part 3

Item No.	Correct Answer	GLCE	Type	Description
34	C	N.FL.07.05	Core	Solve proportion problems
35	A	N.FL.07.05	Core	Solve proportion problems
36	B	N.FL.07.05	Core	Solve proportion problems
37	B	N.MR.07.06	Core	Understand the concept of square root and cube root
38	A	N.MR.07.06	Core	Understand the concept of square root and cube root
39	D	N.MR.07.06	Core	Understand the concept of square root and cube root
40	C	N.FL.07.07	Core	Solve problems involving operations with integers
41	C	N.FL.07.07	Core	Solve problems involving operations with integers
42	C	N.FL.07.07	Core	Solve problems involving operations with integers
43	D	A.PA.07.11	Core	Understand & use basic properties of real numbers
44	A	A.PA.07.11	Core	Understand & use basic properties of real numbers
45	C	A.PA.07.11	Core	Understand & use basic properties of real numbers
46	D	A.FO.07.12	Core	Compute simple linear algebraic expressions
47	B	A.FO.07.12	Core	Compute simple linear algebraic expressions
48	D	A.FO.07.12	Core	Compute simple linear algebraic expressions
49	C	G.TR.07.05	Core	Show similarity of triangles using properties
50	A	G.TR.07.05	Core	Show similarity of triangles using properties
51	D	G.TR.07.05	Core	Show similarity of triangles using properties
52	C	G.TR.07.06	Core	Use similarity of triangles and scale factor
53	D	G.TR.07.06	Core	Use similarity of triangles and scale factor
54	B	G.TR.07.06	Core	Use similarity of triangles and scale factor
55	C	D.AN.07.04	Core	Find, interpret the median, quartiles, and IQR
56	A	D.AN.07.04	Core	Find, interpret the median, quartiles, and IQR
57	B	D.AN.07.04	Core	Find, interpret the median, quartiles, and IQR
58	A	A.FO.07.08	FutureCore	Find and interpret x and y intercepts
59	B	A.FO.07.13	FutureCore	Generate and solve linear equations
60	A	A.PA.07.01	FutureCore	Recognize proportional or linear relationships
61	B	A.PA.07.03	FutureCore	Graph linear equations & interpret slope
62	D	A.PA.07.05	FutureCore	Use proportional & linear relationships
63	A	A.PA.07.06	FutureCore	Compute the slope of a linear equation
64	A	A.PA.07.07	FutureCore	Graph linear equations, interpret slope, y- intercept
65	B	A.PA.07.09	FutureCore	Recognize inversely proportional relationships
66	D	A.RP.07.10	FutureCore	Know properties of the graph of $y = k/x$
67	C	D.AN.07.02	FutureCore	Make, interpret scatterplots; find line of best fit
68	A	N.MR.07.02	FutureCore	Solve problems involving derived quantities