

___ 7. Choose the equivalent fraction for: $\frac{2}{3}$

- A $\frac{3}{2}$
- B $\frac{12}{6}$

- C $\frac{8}{9}$
- D $\frac{8}{12}$

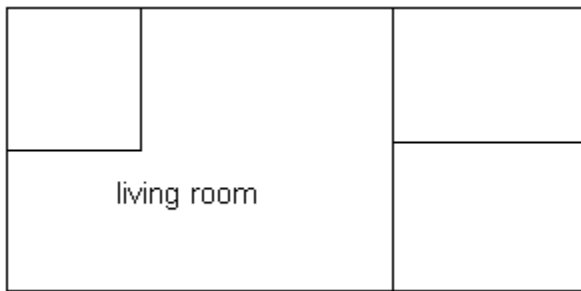
___ 8. Solve the proportion:

$$\frac{3}{25} = \frac{x}{60}$$

- A $x = 5$
- B $x = 7.2$

- C $x = 10$
- D $x = 500$

___ 9. On a scale model of a house, 2 inches on the model equals 7 feet on the house. If the living room is 8 inches long in the model, how long is it on the real house?



- A $3\frac{1}{2}$ feet

- B 9 feet

- C 14 feet

- D 28 feet

___ 10. The square root of 63 is between which two integers?

- A 31 and 32

- B 30 and 31

- C 7 and 8

- D 8 and 9

___ 11. $2 - (-6) =$ ___

- A 4

- B -4

- C 8

- D -8

_____ 12. $-2 \times 6 =$ _____

A 12

B -12

C 3

D $-\frac{1}{3}$

_____ 13. $-2 \div (-6) =$ _____

A 3

B -3

C $\frac{1}{3}$

D $-\frac{1}{3}$

_____ 14. $-\frac{3}{5} \div \frac{1}{4} =$

A $-\frac{3}{20}$

B $-\frac{12}{5}$

C $-\frac{5}{12}$

D $-\frac{20}{3}$

_____ 15. $-6.3 \times 3 =$ _____

A -18.9

B 18.9

C -3.1

D -0.476

_____ 16. $-3 - \left(-\frac{3}{4}\right) =$

A $3\frac{3}{4}$

B $-2\frac{3}{4}$

C $-2\frac{1}{4}$

D $-3\frac{3}{4}$

____ 17. Estimate the sum of these two fractions, then decide if the sum is closer to $7\frac{1}{2}$ or 8.

$$3\frac{1}{2} + 4\frac{3}{5}$$

A Closer to $7\frac{1}{2}$

B Closer to 8

____ 18. Which of the following is the best estimate for $13.67 \div 3.33$?

A 2
B 4

C 7
D 1

____ 19. Which table shows the pattern of a linear relationship?

Table A		Table B		Table C		Table D	
X	Y	X	Y	X	Y	X	Y
-3	3	-3	-7	5	2	-3	-5
-2	2	-2	-5	-3	-6	0	1
-1	1	-1	-3	0	-3	2	5
0	0	0	-1	-2	1	-1	-1
1	1	1	1	-1	2	-2	-5
2	2	2	3	1	4	3	-7
3	3	3	5	2	5	4	9

A Table A

C Table C

B Table B

D Table D

____ 20. Which equation describes a linear relationship?

A $y = 4x + 3$

C $y = x^2 + 5$

B $y = (x-2)^2$

D $y = x^3$

___ 21. Which equation expresses the relationship given in this table?

<u>x</u>	<u>y</u>
-3	-7
-2	-5
-1	-3
0	-1
1	1

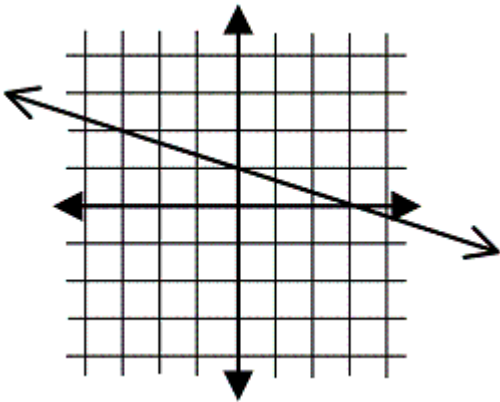
A $2x - 2 = y$

B $3x - 1 = y$

C $y = x - 4$

D $y = 2x - 1$

___ 22. What is the y-intercept and slope of this graph?



A y-intercept: 1
slope: $\frac{1}{3}$

B y-intercept: 1
slope: $-\frac{1}{3}$

C y-intercept: 3
slope: $\frac{1}{3}$

D y-intercept: 3
slope: $-\frac{1}{3}$

- _____ 23. Troy is collecting money for charity by participating in a walk-a-thon. His grandparents will give him \$100 just for doing the walk, and he will collect an additional \$53 per mile from other people in his neighborhood.

Let y = the total amount collected, and x = the number of miles he walks.

Which equation describes how much Troy will collect, based on his grandparents' contribution and how many people make a pledge.

A $y = 100x + 53$

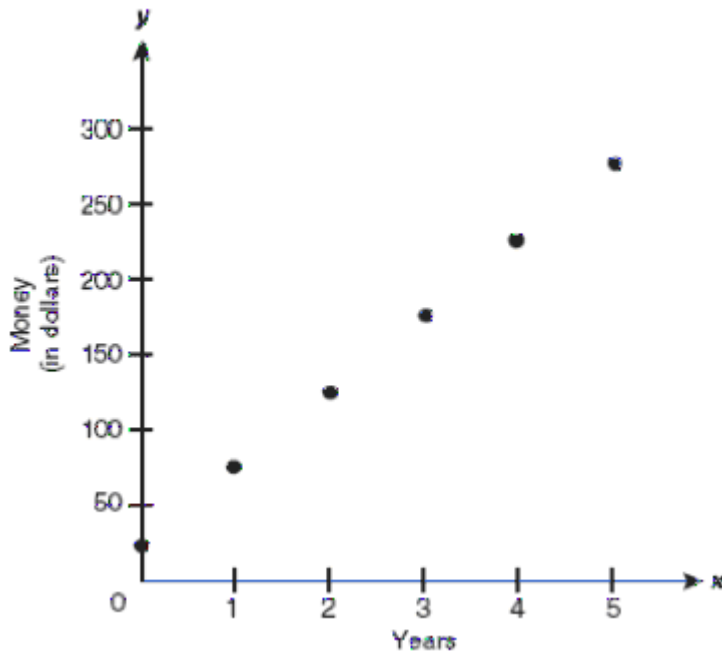
C $y = 100x + 53x$

B $53y = x + 100$

D $y = 53x + 100$

- _____ 24. 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?

Kevin's Bank Account



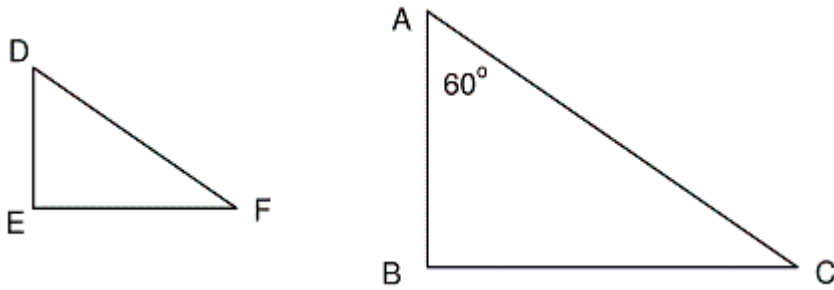
A \$25 at birth and \$25 each year

C \$50 at birth and \$25 each year

B \$25 at birth and \$50 each year

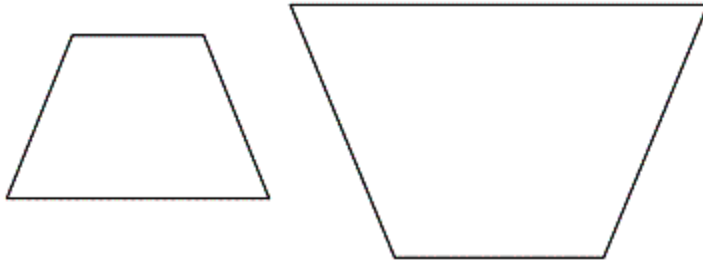
D \$50 at birth and \$50 each year

___ 28. These two right triangles are similar. What is the measure of angle D?



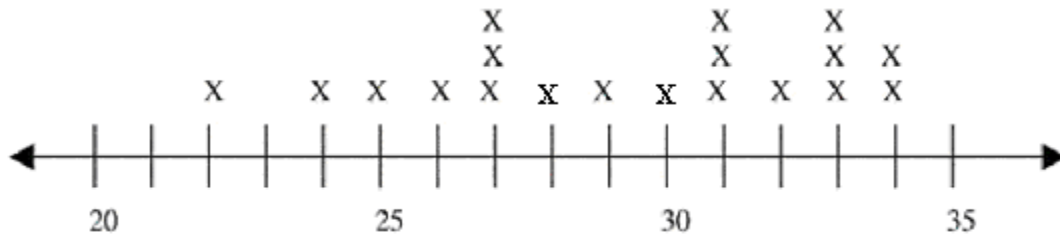
- A 90°
- B 60°
- C 45°
- D 30°

___ 29. What would need to be true for these two figures to be similar?



- A All four sides would have to be the same length.
- B The tops and bottoms would have to be parallel.
- C The figures have to look identical and have two angles of the same size.
- D All angles have to be equal and all sides have to be in the same proportion.

32. This line plot represents the number of raisins that Janika's class counted in each of the 19 boxes of cereal. What is the median number of raisins in a box?

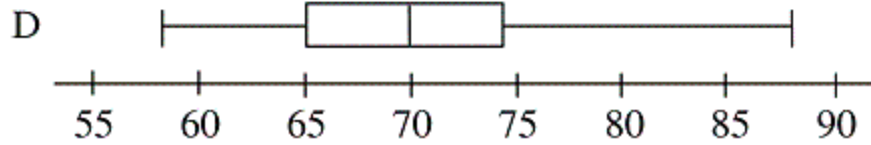
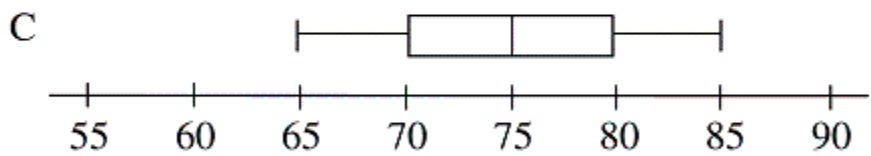
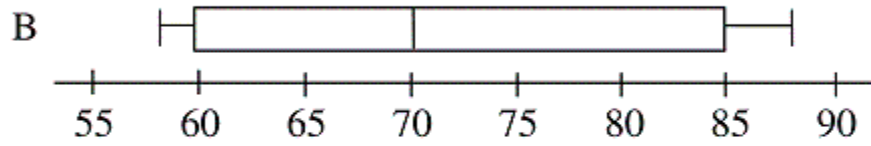
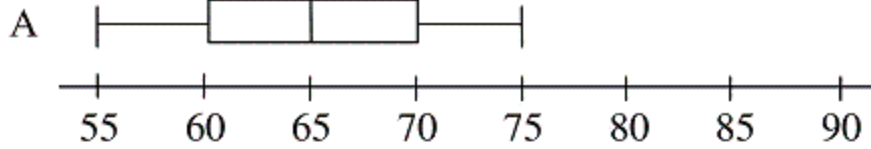


- A 27
B 29
C 30
D 31

33. A study was conducted to determine the effectiveness of a speed limit sign. The speeds of cars at the 65 mph sign were:

60 70 65 70 74 58 71 88 65 85

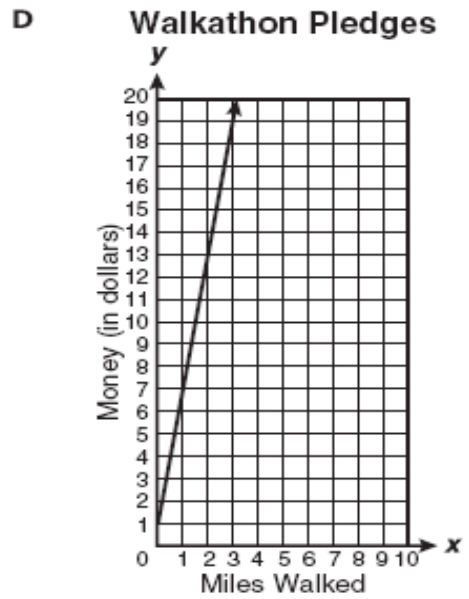
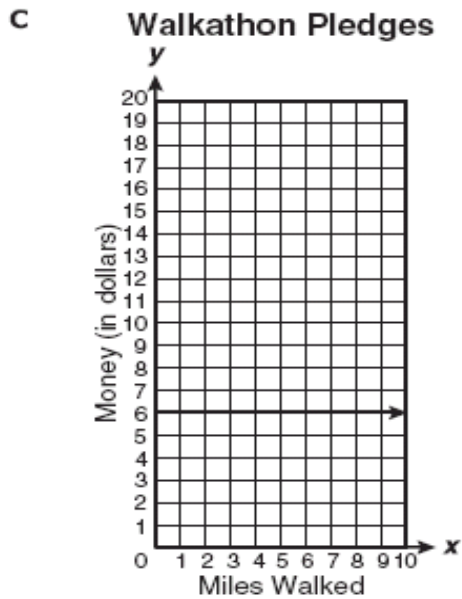
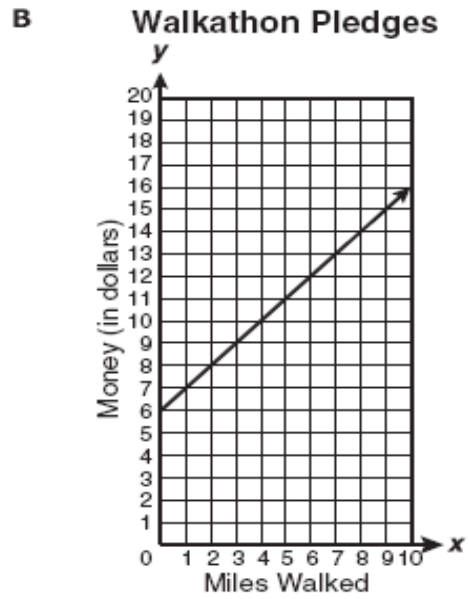
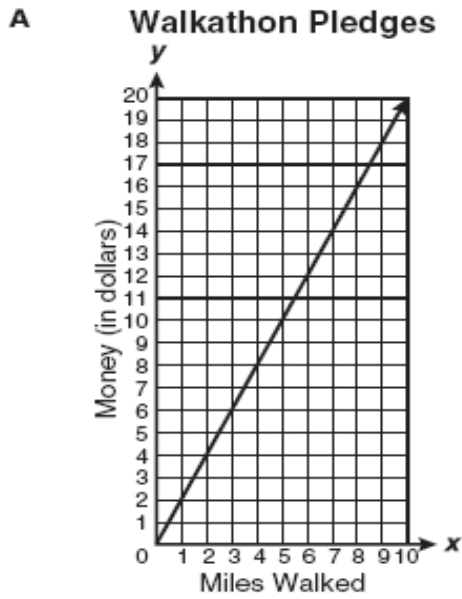
Which box-and-whisker plot correctly displays the information?



A
A
B
B

C
C
D
D

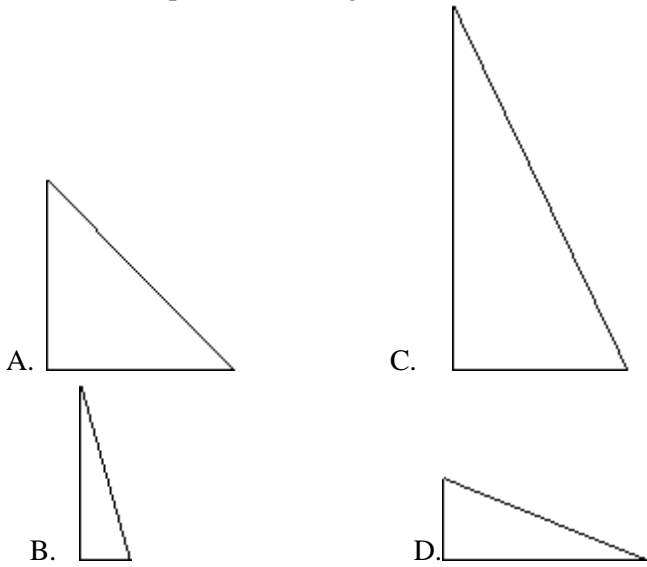
34. A walkathon requires \$6 to enter and \$1 for each mile completed. Which of the following graphs shows this relationship?



A A
B B

C C
D D

___ 35. Which best represents a triangle with two sides that are equal in length?

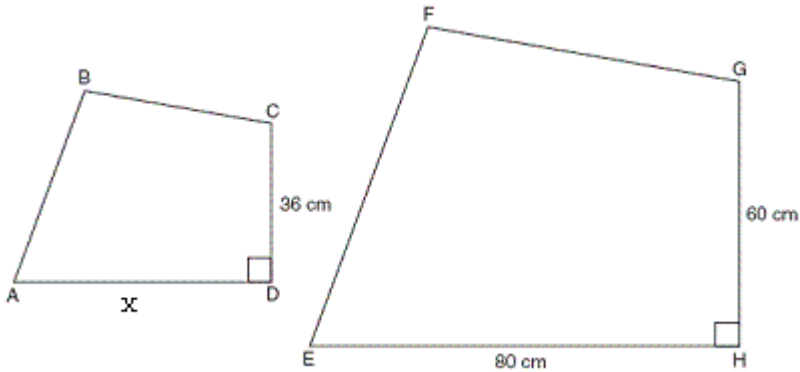


- | | | | |
|----------|---|----------|---|
| A | A | C | C |
| B | B | D | D |

___ 36. 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?

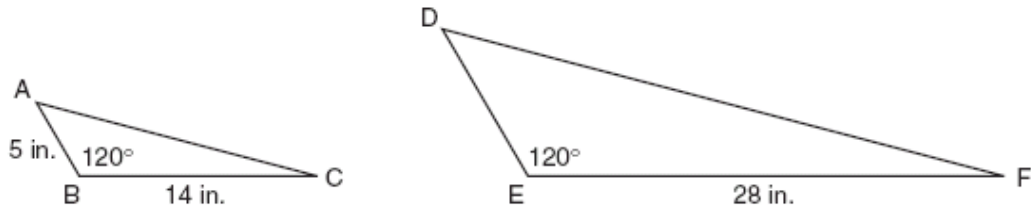
- | | | | |
|----------|---------|----------|----------|
| A | 3.0 ft. | C | 7.5 ft. |
| B | 5.5 ft. | D | 11.0 ft. |

___ 37. Quadrilateral ABCD and quadrilateral EFGH are similar. What is the length of line AD in centimeters?



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

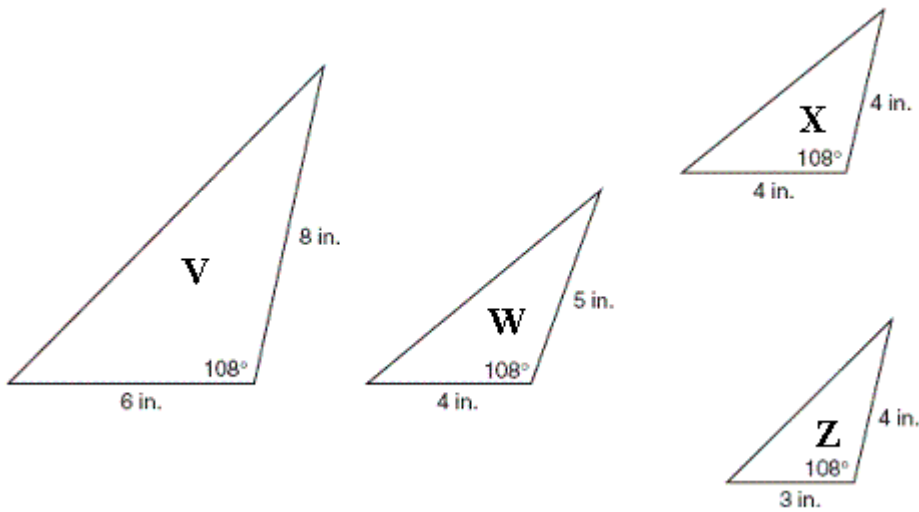
___ 42. The diagram shows some measurements of triangle ABC and triangle DEF.



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

___ 43. The largest angle in all of the triangles below measures 108° . Which two triangles are similar to each other?



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

___ 44. 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 $5 + 3 = 14x$

___ 45. A lawn mowing company contracts to mow 60 lawns per day. Currently the company employs 6 people to mow lawns but will double the number of employees. If each current and new employee mows the same number of lawns per day, how many would they each mow?

- A 5
- B 6
- C 10
- D 12

_____ 46. Given the points (3,8) and (8,12) calculate the slope of the line that the points lie on.

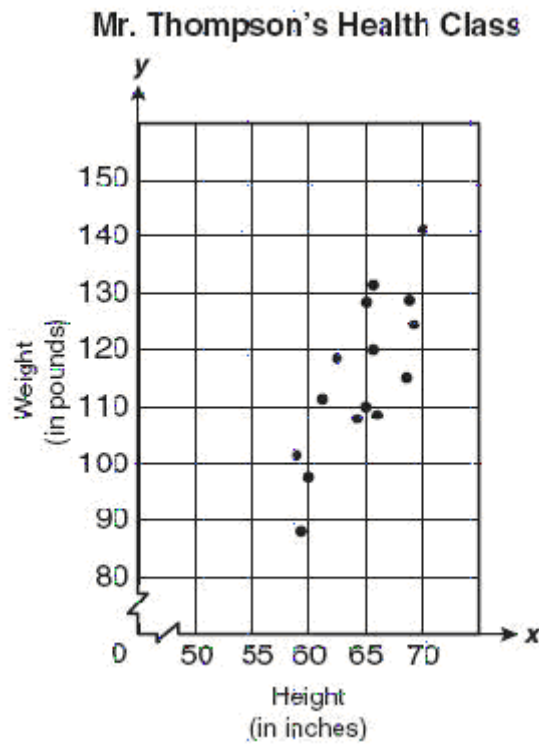
A $\frac{4}{-5}$

C $\frac{4}{5}$

B $\frac{-4}{-5}$

D $\frac{-4}{5}$

_____ 47. The scatter plot below shows the relationship between the height and the weight for each of 15 students in Mr. Thompson's health class.



Using the line of best fit on this scatter plot, which is closest to the height of a student who weighs approximately 115 pounds?

A 70 inches

C 65 inches

B 59 inches

D 69 inches

- _____ **48.** Marcus is making a sailboat with two similar triangular sails. The side lengths of the larger sail are 3 times the dimensions of the smaller sail. How do the areas of the sails compare?
- A** The area of the large sail is 3 times the area of the smaller sail.
 - B** The area of the larger sail is 6 times the area of the smaller sail.
 - C** The area of the larger sail is 9 times the area of the smaller sail.
 - D** The area of the larger sail is 27 times the area of the smaller sail.

7th Grade Math Exit Assessment Answer Section

MULTIPLE CHOICE

1.	ANS: B	PTS: 1	STA: N.MR.07.02
2.	ANS: D	PTS: 1	STA: N.FL.07.03
3.	ANS: C	PTS: 1	STA: N.FL.07.03
4.	ANS: A	PTS: 1	STA: N.MR.07.04
5.	ANS: B	PTS: 1	STA: N.MR.07.04
6.	ANS: B	PTS: 1	STA: N.FL.07.05
7.	ANS: D	PTS: 1	STA: N.FL.07.05
8.	ANS: B	PTS: 1	STA: N.FL.07.05
9.	ANS: D	PTS: 1	STA: N.FL.07.05
10.	ANS: C	PTS: 1	STA: N.MR.07.06
11.	ANS: C	PTS: 1	STA: N.FL.07.07
12.	ANS: B	PTS: 1	STA: N.FL.07.07
13.	ANS: C	PTS: 1	STA: N.FL.07.07
14.	ANS: B	PTS: 1	STA: N.FL.07.08
15.	ANS: A	PTS: 1	STA: N.FL.07.08
16.	ANS: C	PTS: 1	STA: N.FL.07.08
17.	ANS: B	PTS: 1	STA: N.FL.07.09
18.	ANS: B	PTS: 1	STA: N.FL.07.09
19.	ANS: B	PTS: 1	STA: A.PA.07.01
20.	ANS: A	PTS: 1	STA: A.PA.07.01
21.	ANS: D	PTS: 1	STA: A.RP.07.02
22.	ANS: B	PTS: 1	STA: A.RP.07.02
23.	ANS: D	PTS: 1	STA: A.PA.07.03
24.	ANS: B	PTS: 1	STA: A.PA.07.03
25.	ANS: D	PTS: 1	STA: A.PA.07.04
26.	ANS: B	PTS: 1	STA: A.PA.07.05
27.	ANS: A	PTS: 1	STA: A.PA.07.06
28.	ANS: B	PTS: 1	STA: G.TR.07.03
29.	ANS: D	PTS: 1	STA: G.TR.07.03
30.	ANS: C	PTS: 1	STA: G.TR.07.04
31.	ANS: D	PTS: 1	STA: G.TR.07.06
32.	ANS: C	PTS: 1	STA: D.AN.07.03
33.	ANS: D	PTS: 1	STA: D.AN.07.04
34.	ANS: B	PTS: 1	STA: A.PA.07.04
35.	ANS: A	PTS: 1	STA: G.SR.07.01
36.	ANS: D	PTS: 1	STA: G.TR.07.04
37.	ANS: C	PTS: 1	STA: G.TR.07.04
38.	ANS: D	PTS: 1	STA: D.RE.07.01
39.	ANS: D	PTS: 1	STA: A.PA.07.11
40.	ANS: C	PTS: 1	STA: A.PA.07.11
41.	ANS: B	PTS: 1	STA: A.FO.07.12

42.	ANS: C	PTS: 1	STA: G.TR.07.04
43.	ANS: D	PTS: 1	STA: G.TR.07.05
44.	ANS: B	PTS: 1	STA: A.FO.07.13
45.	ANS: A	PTS: 1	STA: A.PA.07.09
46.	ANS: C	PTS: 1	STA: A.PA.07.06
47.	ANS: C	PTS: 1	STA: D.AN.07.02
48.	ANS: C	PTS: 1	STA: G.TR.07.06