

End of Course Assessment
Course 1

NESA Review

Select the best answer.

1. Average yearly heat and electric costs are listed in the table. Which choice lists the countries in order by cost from least to greatest?

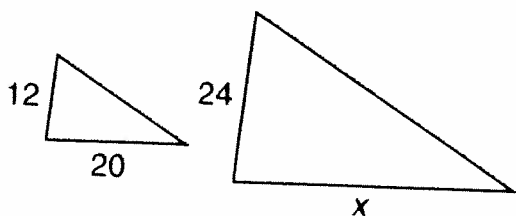
Country	Average Cost
Argentina	\$2137
Brazil	\$2702
India	\$2360
U.S.	\$2376

- A India, U.S., Argentina, Brazil
 B Argentina, Brazil, India, U.S.
 C U.S., India, Argentina, Brazil
 D Argentina, India, U.S., Brazil

2. What is the GCF of 45, 90, and 150?

- F 3 H 6
 G 5 J 15

3. The triangles are similar. What is the length of the base of the larger triangle?



- A 10 C 40
 B 32 D 48

4. What is the mean?

- 5 4 2 8 6 11 3 7 12
 F 5.9 hr H 6.4 hr
 G 6.0 hr J 7.3 hr

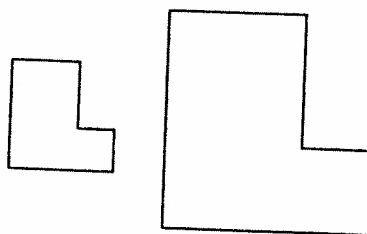
5. A t-shirt requires $\frac{3}{4}$ of a yard of material. How many t-shirts can be made from 18 yards of material?

- A 6 C 24
 B 13 D 36

6. A garden is 9 ft on a side. What happens to the area if you double the sides?

- F the area will be twice as large
 G the area will be 3 times as large
 H the area will be 4 times as large
 J the area will remain the same

7. Which term best describes the transformation shown below?



- A rotation C translation
 B reflection D stretching

8. Suppose you write the letters of the word PROBABILITY on individual cards. If you select a card without looking, what is the probability of selecting the letter I?

- F $\frac{1}{11}$ H $\frac{1}{10}$
 G $\frac{2}{11}$ J $\frac{2}{5}$

9. What is $|-13|$?

- A -13 C 1
 B 0 D 13

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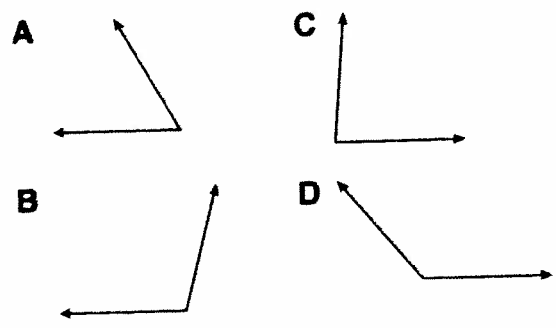
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10. Your favorite store is having a sale. You would like to buy a new CD and 6 videotapes. What is the best estimate for the cost of a CD and 6 videotapes?

Miko's Electronics Plus	
CDs	\$14.95
VCR	\$129.95
Videotapes	6 for \$8.29
Phone	\$42.95

- F \$20 H \$25
G \$23 J \$32

11. Marie is building a birdhouse for a 4-H project. She would like the roof of the birdhouse to have an angle greater than 90 degrees but less than 120 degrees. Which angle is greater than 90° and less than 120°?



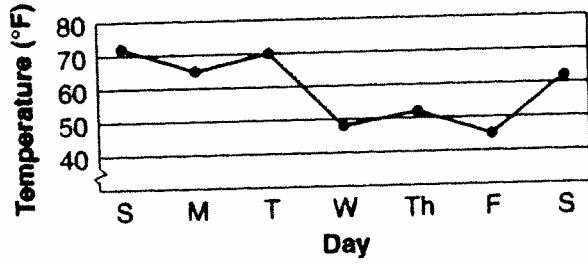
12. Which is a solution to $x - 9 = 16$?
F $x = 10$ H $x = 25$
G $x = 12$ J $x = 7$

13. Which expression shows how the distributive property can be used to multiply 8×29 ?
A $8(20) + 8(9)$ C $29(8)$
B $8 + 20 \cdot 8 + 9$ D $8(20) + 9$

14. Seven out of 12 people say they will vote for Mrs. Meekus. If 5,592 people vote, how many are likely to vote for Mrs. Meekus?

- F 2,121 H 4,868
G 3,262 J 9,586

15. Use the line graph. The greatest difference in daily high temperatures occurs between which two days?



- A Monday and Tuesday
B Tuesday and Wednesday
C Wednesday and Thursday
D Friday and Saturday

16. At summer camp the cook bought 150 pounds of potatoes. The campers made campfire pocket stew and used $82\frac{7}{8}$ pounds of potatoes. How many pounds were left?

- F $60\frac{5}{8}$ lb H $68\frac{1}{8}$ lb
G $67\frac{1}{8}$ lb J $72\frac{7}{8}$ lb

17. What is the volume of the glass? Use 3.14 for π .

- A 32 in^3
B 50.24 in^3
C 100.48 in^3
D 401.92 in^3



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18. Simplify $-9 - (-7)$.

- F -16 H 2
G -2 J 63

19. Use the data in the table to write an equation for the function.

- A $y = 2x - 1$
B $y = 3x + 4$
C $y = 6x - 2$
D $y = 5x + 3$

x	y
-2	-2
2	10
4	16

20. The Grill has a choice of 4 different types of eggs, 3 different meats, 4 kinds of juice, and 2 kinds of potatoes. If you have one of each item, how many ways can you choose?

- F 13 H 48
G 32 J 96

21. Clarissa works at the deli on Saturdays. Her mom came in and ordered 3 different salads. She ordered 5.2 pounds of potato salad, 5.25 pounds of coleslaw, and 5.3 pounds of pasta salad. Which shows the decimals in order from least to greatest?

- A 5.2, 5.25, 5.3
B 5.3, 5.25, 5.2
C 5.25, 5.2, 5.3
D 5.25, 5.3, 5.2

22. What is the measure of one interior angle of a regular hexagon?

- F 60° H 140°
G 120° J 720°

23. Evaluate $3x - 9$ for $x = 8$.

- A 12 C 29
B 15 D 33

24. Solve $\frac{y}{8.2} = 3.5$.

- F $y = 2.34$ H $y = -4.7$
G $y = 11.7$ J $y = 28.7$

25. A used car loan of \$2,262.24 is to be paid off in 18 equal monthly payments. How much is each payment?

- A \$100.24 C \$120.24
B \$118.52 D \$125.68

26. Identify the figure shown.



- F point H line segment
G line J ray

27. Solve $7y = 63$.

- A $y = 8$ C $y = 56$
B $y = 9$ D $y = 441$

28. Simplify 5^4 .

- F 20 H 625
G 45 J 715

29. Simplify $4 \cdot 5 - 2 \cdot 6 + 4$.

- A 12 C 36
B 18 D 72

30. Roberto's tuition was \$4800. He was able to obtain a loan for $\frac{2}{3}$ of the tuition. How much was the loan?

- F \$1,600 H \$3,200
G \$2,400 J \$9,600

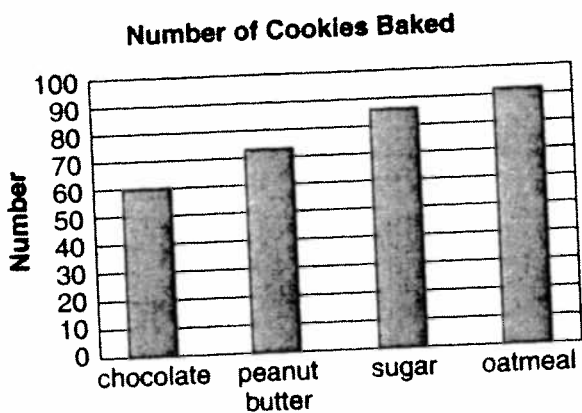
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31. Regina received a score of 39 out of 52 on a quiz. What percent did she earn?

- A 39% C 82%
 B 75% D 133%

32. Mrs. Morris was baking cookies for the school open house. The number of cookies she baked is shown in the graph below. Marcus dropped a plate of oatmeal cookies on the floor and 15 had to be thrown out. Which type of cookie is there the most of now?



- F chocolate H sugar
 G peanut butter J oatmeal

33. Subtract $10\frac{1}{6} - 5\frac{7}{8}$.

- A $4\frac{7}{24}$ C $5\frac{7}{24}$
 B $5\frac{17}{24}$ D $4\frac{1}{2}$

34. Delroy has just started jogging. He jogs for $\frac{5}{8}$ of a mile, walks for a while, and then jogs an additional $\frac{7}{16}$ of a mile. How far does he jog?

- F $\frac{1}{2}$ mile H $1\frac{1}{16}$ miles
 G $\frac{3}{4}$ mile J $1\frac{1}{2}$ miles

35. Fallon wants to place new edge trim around a blanket. The blanket is 72 inches wide and 76 inches long. How many inches of edging will Fallon need?

- A 148 in. C 304 in.
 B 296 in. D 5,472 in.

36. The Thompson's are looking at installing a circular pool in their backyard. They cannot decide on the size. They think the 27-foot-diameter pool will be too big. What is the area of a 27-foot diameter circle? Use 3.14 for π and round the answer to the nearest hundredth.

- F 84.78 ft² H 572.27 ft²
 G 452.16 ft² J 2,289.06 ft²

37. Solve $x - 14 = -22$.

- A $x = -8$ C $x = 36$
 B $x = 8$ D $x = -36$

39. In what quadrant is the point (3, -4) located?

- F I H III
 G II J IV

39. Which shows an expression for "the sum of 3 times a number and 5"?

- A $3x + 5$ C $5 + x$
 B $5x + 3$ D $2x + 5$

40. A watch cost \$75.99. If the sales tax rate is 6.25%, what is the amount of sales tax?

- F \$0.48 H \$4.75
 G \$2.19 J \$474.94