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Grade 9 general revision for trimester 1 prepared by Adel Rezq A1 Samha school C2 \& C3
For the following questions only one answer is correct, circle the letter of the correct answer

1. What does the algebraic expression $\mathbf{4 d}$ say in words?
A. The sum of $\boldsymbol{d}$ and 4
B. 4 times $d$
C. 4 increased by $d$
D. The quotient of $\boldsymbol{d}$ and 4
2. The expression $3 x-(2 x+4 x-6)$ is equivalent to
A $-3 x-6$
C $3 x+6$
B $-3 x+6$
D $3 x-6$
3. Let $m$ represent the number of miles. Which algebraic expression represents the number of feet in $m$ miles?
A 5280 m
B $\frac{5280}{m}$
C $m+5280$
D $5280-m$
4. $27 \div 3+(12-4)=$
A $\frac{-11}{5}$
B $\quad \frac{27}{11}$
C 17
D 25
5. Write an algebraic expression to represent the perimeter of the rectangle shown below. Then evaluate it to find the perimeter when $w=8 \mathrm{~cm}$.
A 37 cm
B 232 cm
C 74 cm
D 45 cm

$4 w-3$

Grade 9 general revision for trimester 1 prepared by Adel Rezq A1 Samha school C2 \& C3 6. Rewrite the expression $(8-3 p)(-2)$ using the distributive Property.
A. $-16+6 p$
B. $-10 p$
C. $16-6 p$
D. $10 p$
7. Find the value of the expression $\boldsymbol{a}^{\mathbf{2}}+\mathbf{2 a b}+\boldsymbol{b}^{\mathbf{2}}$ if $a=6$ and $b=4$.
A. 68
B. 92
C. 100
D. 121
8. The expression $-(\mathbf{3 x}-\mathbf{4 x}+\mathbf{6})$ is equivalent to:
A. $-x-6$
B. $x-6$
C. $7 x+6$
D. $-7 x-6$
9. Simplify the expression $5 d(7-3)-16 d+3 \cdot 2 d$.
A $10 d$
C 21 d
B $14 d$
D 25d
10. Choose the correct word sentence for this equation: $n-10=15$
A. The sum of 15 and a number is 10 .
B. Ten less than a number is 15 .
C. The difference of 15 and 10 is this number.
D. Ten more than a number is 15 .
11. The area of a rectangular garden is given as the length times the width of the garden. Which formula describes the relationship between $x$ and $y$ ? Use $A$ for area, $x$ for length, and $y$ for width.
A. $A=\frac{x}{y}$
B. $A=x \cdot y$
C. $A=2 x+2 y$
D. $A=x+y$

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12. What is the solution of the Equation $6 x=48$ ?
A. -6
B. 6
C. -8
D. 8
13. 4. Find the value of $x$ so that the figures have the same perimeter.
A. 1.5
B. 2
C. 3.2
D. 4

14. Find the value of $x$ so that the figures have the same area.
A 3
C 6.5
B 4.5
D 7

15. Find the value of $x$ so that the figures have the same perimeter.

A 4
B 5
C 6
D 7
16. Three palm trees have different heights. Their heights are consecutive integers. The total of the heights is 18 . Which equation represents this situation?
A. $x+3=18$
B. $3 x+3=18$
C. $3 x=18$
D. $x-3=18$

17. Which equation represents the second step of the solution process?

Step 1: $4(2 x+7)-6=3 x$
Step 2:
Step 3: $5 x+28-6=0$
Step 4: $5 x=-22$
Step 5: $x=-4.4$

A $4(2 x-6)+7=3 x$
B $4(2 x+1)=3 x$
C $8 x+7-6=3 x$
D $8 x+28-6=3 x$
18. Solve the equation $\frac{3}{5} x=\frac{1}{4}$.
A -3
B $\frac{3}{20}$
C $\frac{5}{12}$
D 2
19. Evaluate the value of the expression if $x=-4, y=7$

$$
|3 x-2|+2 y
$$

A. 28
B. 29
C. 30
D. 32
20. Solve the Equation: $|6 \boldsymbol{m}-3|=\mathbf{9}$
A. $\{2\}$
B. $\{-3,6\}$
C. $\{-1,2\}$
D. $\{-3,3\}$
21. Write an equation involving absolute value foi the graph.

A. $|x-1|=4$
B. $|x+1|=4$
C. $|x-1|=-4$
D. $|x-4|=1$

Grade 9 general revision for trimester 1 prepared by Adel Rezq A1 Samha school C2 \& C3 22. Solve the Equation: $|5 t+4|=-1$
A. $\{-1\}$
B. $\{-1,1\}$
C. $\{0,2\}$
D. no solution
23. The amount of soda, in fluid ounces, dispensed from a machine must satisfy the equation $|a-0.4|=20$. Which of the following graphs shows the acceptable minimum and maximum amounts that can be dispensed from the machine?
A



24. Solve for $x$ : $\frac{\mathbf{5}}{\mathbf{1 8}}=\frac{10}{\boldsymbol{x}}$
A. 9
B. 18
C. 36
D. 54
25. Which pair of ratios are proportional?
A. 11:15 and 5:20
B. 5 to 15 and 9 to 36
C. $\frac{6}{33}=\frac{10}{55}$
D. $\frac{18}{2}=\frac{56}{7}$
26. A farm has 18 chickens for every 5 cattle. How many chickens does the farm have, if it has 90 cattle?
A. 90
B. 125
C. 280
D. 324
27. Identify which of these changes will have percent of increase?
A. From 184 students to 169 students
B. From 1512 m to 1557 m
C. From 23 liters to 18 liters
D. From $32^{\circ} \mathrm{C}$ to $29^{\circ} \mathrm{C}$

Grade 9 general revision for trimester 1 prepared by Adel Rezq Al Samha school C2 \& C3 28. Layla had 18 kg of powder. But now she has $\mathbf{1 1} \mathbf{~ k g}$. Find the percent of change and determine if it is increase or decrease.
A. $7 \%$, increase
B. $61.1 \%$, decrease
C. $38.9 \%$, decrease
D. $61.1 \%$, decrease
29. Solve the equation: $3 a-b=12$ for $a$.
A. $4+\frac{b}{3}$
B. $4+b$
C. $3(12+b)$
D. $12+\frac{b}{3}$
30. The formula $\boldsymbol{A}=\boldsymbol{P}(\mathbf{1}+\boldsymbol{r t})$ represents the amount of money $\boldsymbol{A}$; including interest, accumulated after $\boldsymbol{t}$ years; $\boldsymbol{P}$ represents the initial amount of the investment and $\boldsymbol{r}$ represents the annual rate of interest as a decimal. Solve for $r$.
A. $r=\frac{A}{P}-1$
B. $r=\frac{A+P}{P t}$
C. $\quad r=\frac{A-P}{t}$
D. $\quad r=\frac{A}{P}-t$
31. At Mama Mia Pizza, the price of a large pizza is determined bv $P=9+1.5 x$, where $x$ represents the number of toppings added to a cheese pizza. Daniel spent $\$ 13.50$ on a large pizza. How many toppings did he get?
A 0
B 1
C 3
D 5
32. Find the $x$ - and $y$-intercepts of the lin graphed at the right.

A $x$-intercept is $0 ; y$-intercept is 30 .
B $x$-intercept is $20 ; y$-intercept is 30 .
C $x$-intercept is $20 ; y$-intercept is 0 .
D $x$-intercept is $30 ; y$-intercept is 20 .

| - ${ }^{19}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |
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| $-10$ |  |  |  |  |  |  |
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| - |  |  |  |  |  |  |
| 0 |  | 110 | 15 |  |  |  |
|  |  | 1 I |  |  |  |  |

33. Find the $x$ - and $y$-intercepts of the graph.

Gym Membership
A $x$-intercept is $0 ; y$-intercept is 150 .
B $x$-intercept is $150 ; y$-intercept is 0 .
C $x$-intercept is 150; no $y$-intercept.
D No $x$-intercept; $y$-intercept is 150 .
34. Find the $x$ - and $y$-intercepts of the graph of each linear function.

A $x$-intercept is $0 ; y$-intercept is 0 .
B $x$-intercept is $\mathbf{1 2}$; $y$-intercept is $\mathbf{- 2 4}$.
C $x$-intercept is $\mathbf{- 1 2} ; y$-intercept is $\mathbf{- 2 4}$.
D No $x$-intercept; $y$-intercept is $\mathbf{- 2 4}$.
35. What are the $x$ - and $y$-intercepts of the graph of the function?
A $\quad-3,6$
B $6,-3$
C $3,-6$
D $-6,3$

| Position of Scubbiviver |  |
| :---: | :---: |
| Time (s) | Depth (m) |
| $x$ | $y$ |
| 0 | -24 |
| 3 | -18 |
| 6 | -12 |
| 9 | -6 |
| 12 | 0 |


36. Hassn received an overall project grade of 85.6. the teacher counted lab work $\mathbf{2 0} \%$, graphs $\mathbf{2 0} \%$, class participation $\mathbf{3 0} \%$ to determine the overall project grade. Hassan's lab grade was 81 , graphs 92 and tests 80 . What was Hassan's class participation grade?
A. 48.6
B. 58.6
C. 88.6
D. 90

Grade 9 general revision for trimester 1 prepared by Adel Rezq Al Samha school C2 \& C3 37. Find the slope of the line that passes through the two points:
$(1,6)$,
$(5,14)$
A. -2
B. -1
C. 0
D. 2
38. Find the value of $r$ so the line that passes through the Pair of points has the given slope.

$$
(-4,8), \quad(r, 12) \quad, \quad m=\frac{4}{3}
$$

A. -4
B. -1
C. 0
D. 3
39. The function $\boldsymbol{y}=-\mathbf{1 5}+\mathbf{3 x}$ represnts the outside tempreture, in degrees fahrenheit, in a small alaskan town where $x$ represents the number of hours after midnight. The function is accurate for $x$ values representing midnight through 4:00 PM. Find the zero of this function.
A. 0
B. 3
C. 5
D. -15
40. The line graphed on the coordinate plane shows the rise and run between $(-6,-2)$ and $(6,4)$. What is the rate of change?
A. 2
B. 4
C. $\frac{1}{2}$
D. $\frac{1}{4}$

41. Solve for $n$. $|2 n-3|=5$
A $\{-4,-1\}$
B $\{-1,4\}$
C $\{1,1\}$
D $[4,4]$

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42. Which table of values represent linear function?
A

| $x$ | -1 | 0 | 1 | 2 |
| :---: | :---: | :---: | :---: | :---: |
| $y$ | 3 | 5 | 7 | 9 |

B

| $x$ | -2 | 0 | 2 | 4 |
| :---: | :---: | :---: | :---: | :---: |
| $y$ | -5 | 0 | 10 | 20 |

C

| $x$ | -1 | 0 | 1 | 2 |
| :---: | :---: | :---: | :---: | :---: |
| $y$ | 2 | -2 | 2 | -2 |

D

| $x$ | -1 | 0 | 1 | 2 |
| :---: | :---: | :---: | :---: | :---: |
| $y$ | 1 | 0 | 1 | 4 |

43. The opposite graph represents
A. Positive slope
B. Zero slope
C. Negative slope
D. Undefined slope

44. The opposite graph represents
A. Positive slope
B. Zero slope
C. Negative slope
D. Undefined slope

45. Which graph shows a direct variation?
A

B

C

D


Grade 9 general revision for trimester 1
46. Suppose $\boldsymbol{y}$ varies directly as $\boldsymbol{x}$, and $\boldsymbol{y}=\mathbf{3 3}$ when $\boldsymbol{x}=\mathbf{- 1 0}$.

What is the value of $\boldsymbol{y}$ when $\boldsymbol{x}=\mathbf{- 5}$ ?
A. -22
B. 33
C. -44
D. 55
47. Which of the following is an equation of direct variation?
A. $y=k x-1$
B. $y=\frac{k}{x}$
C. $y=k x$
D. $y=k x+2$
48. What is the common difference of the following arithmetic sequence?

$$
-8,-1,6,13, \ldots
$$

A. -8
B. $\quad-7$
C. 6
D. 7
49. The $\boldsymbol{n}$ th term of an arithmetic sequence with first term $\boldsymbol{a}_{\mathbf{1}}$ and common difference $\boldsymbol{d}$ is given by:
A. $\quad a_{n}=a_{1}+(n-1) d$
B. $\quad a_{n}=a_{1}+n d$
C. $\quad a_{n}=a_{1}-(n+1) d$
D. $a_{n}=a_{1} n+d$
50. Which of the following represents an arithmetic sequence?
A. $19,17,13,11,7, \ldots$
B. $1,4,9,16,25, \ldots$
C. $45,35,25,15, \ldots$
D. $-6,-1,3,8,12, \ldots$
51. Find the formula for the $\boldsymbol{n}$ th term of the arithmetic sequence.

$$
-7,-4,-1,2, \ldots
$$

A. $\quad a_{n}=3 n-4$
B. $\quad a_{n}=a_{1}+n d$
C. $a_{n}=3 n-10$
D. $a_{n}=-7 n+4$ 52. Find the 15 th term of the arithmetic sequence.

$$
-9,-4,1,6, \ldots
$$

A. 58
B.
61
C. 63
D. 64
53. Which is the slope of the linear function shown in the graph?
A $-\frac{5}{2}$
B $-\frac{2}{5}$
C $\frac{2}{5}$
D $\frac{5}{2}$

54. In each figure, only one side of each regular pentagon is shared with another pentagon. The length of each side is $\mathbf{1}$ centimeter. If the pattern continues, what is the perimeter of a figure that has 6 pentagons?
A 30 cm
B $\quad 25 \mathrm{~cm}$
D 15 cm
C 20 cm
55. The table shows the labor charges of an electrician for jobs of different lengths. Which function represents the situation?
A $C(n)=25 n+35$
C $C(n)=35 n+25$
B $C(n)=25 n+30$
D $C(n)=35 n+40$
56. Find the slope of the line that passes through the two points:

$$
(-2,3),(-5,-12)
$$

A. -5
B. 5
C. 9
D. 0

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57. Find the rate of change for the linear function represented in the table.

| Hours Worked | 1 | 2 | 3 | 4 |
| :--- | :---: | :---: | :---: | :---: |
| Money Earned (\$) | 5.50 | 11.00 | 16.50 | 22.00 |

A increase $\$ 6.50 / \mathrm{h}$
B increase $\$ 5.50 / \mathrm{h}$
C decrease $\$ 5.50 / \mathrm{h}$
D decrease $\$ 6.50 / \mathrm{h}$
58. Suppose that $y$ varies directly as $x$, and $y=14$ when $x=4$. What is the value of $y$ when $x=9$ ?
A 25.5
C 29.5

B 27.5
D 31.5
59. If the graph of a line has a positive slope and a negative $y$-intercept, what happens to the $x$-intercept if the slope and the $y$-intercept are doubled?

A The $x$-intercept becomes four times as great.
B The $x$-intercept becomes twice as great.
C The $x$-intercept becomes one-fourth as great.
D The $x$-intercept remains the same.
60. Which absolute value equation has the graph below as its solution?

A $|x-3|=11$
B $|x-4|=12$
C $|x-11|=3$
D $|x-12|=4$
61. The table below shows the relationship between certain temperatures in degrees Fahrenheit and degrees Celsius. Which of the following linear equations correctly models this relationship?
A $F=\frac{8}{5} C+35$
B $\quad F=\frac{4}{5} C+42$
C $F=\frac{9}{5} C+32$
D $\quad F=\frac{12}{5} C+26$

| Celsius (C) | Fahrenheit $(\mathrm{F})$ |
| :---: | :---: |
| $10^{\circ}$ | $50^{\circ}$ |
| $15^{\circ}$ | $59^{\circ}$ |
| $20^{\circ}$ | $68^{\circ}$ |
| $25^{\circ}$ | $77^{\circ}$ |
| $30^{\circ}$ | $86^{\circ}$ |

Grade 9 general revision for trimester 1 62. What is the slope of the linear function graphed below?
A $-\frac{1}{3}$
B $\frac{1}{2}$
C $\frac{2}{3}$
D $\frac{3}{2}$

63. Use the graph to determine the solution to the equation $-\frac{1}{3} x+1=0$ ?

64. eache an equation in slope-intercept form for the graph shown.
A. $y=\frac{2}{3} x+2$
B. $y=-\frac{2}{3} x+2$
C. $y=3 x+2$
D. $\mathrm{y}=\frac{2}{3} x-3$

65. A music store has $x$ CDs in stock. If 350 are sold and $3 y$ are added to stock, which expression represents the number of CDs in stock?
A $\quad 350+3 y-x$
C $x+350+3 y$
B $\quad x-350+3 y$
D $3 y-350-x$
66. A recipe for fruit punch calls for 2 ounces of orange juice for every 8 ounces of lemonade. If Jennifer uses 64 ounces of lemonade, which proportion can she use to find $x$, the number of ounces of orange juice needed?
A $\frac{2}{x}=\frac{64}{6}$
C $\quad \frac{2}{8}=\frac{x}{64}$
B $\frac{8}{x}=\frac{64}{2}$
D $\frac{6}{2}=\frac{x}{64}$

Grade 9 general revision for trimester 1 prepared by Adel Rezq A1 Samha school C2 \& C3 67. Which equation best represents the graph?
A $y=2 x$
B $y=-2 x$
C $y=\frac{1}{2} x$
D $y=-\frac{1}{2} x$
68. Which of the following is an algebraic translation of the following phrase? 5 less than the quotient of a number and 8
A $5-\frac{11}{8}$
C $5-\frac{8}{11}$
B $\quad \frac{n}{8}-5$
D $\frac{8}{11}-5$
69. A line through which two points would be parallel to a line with a slope of $\frac{3}{4}$ ?
A $(0,5)$ and $(-4,2)$
B $(0,0)$ and $(0,-2)$
C $(0,2)$ and $(-4,1)$
D $(0,-2)$ and $(-4,-2)$
70. Write an equation of the line that passes through the point $(0,0)$ and has slope -4 .
A $y=x-4$
c $y=-4 x$
B $y=x+4$
D $y=4-x$
71. Determine whether the graphs of the pair of equations are parollel, perpendicular, or neither.

$$
\begin{gathered}
y=-6 x+8 \\
3 x+\frac{1}{2} y=-3
\end{gathered}
$$

A parallel
B perpendicular
C neither
D not enough information
72. Write an equation in slope-point of the line that passes through the two points $(0,3),(4,-9) ?$
A. $y+3=3 x$
B. $y-3=3 x$
C. $y-3=-3 x$
D. $y-3=-3 x+4$

Grade 9 general revision for trimester 1
73. Find the equation in standard form, of the line that passes through the point ( $\mathbf{2}, \mathbf{1}$ ), and parallel to the line: $\boldsymbol{y}=-\mathbf{2 x}+\mathbf{7}$
A. $y=-2 x+4$
B. $2 x+y=5$
C. $-2 x+y=5$
D. $2 x-y=5$
74. Find the equation in slope-y intercept form, for the line that passes through the point ( $\mathbf{3}, \mathbf{- 1}$ ), and parallel to the line: $\boldsymbol{y}=\mathbf{3 x}-\mathbf{8}$
A. $y=3 x+1$
B. $y=-3 x-1$
C. $y=-\frac{1}{3} x+1$
D. $y=-\frac{1}{3} x$
75. To illustrate that the two lines, $y=4 x+3$ and $\frac{1}{4} x+y=10$ are perpendicular.
A. $\quad 4 \times \frac{1}{4}=1$
B. $-4 \times-\frac{1}{4}=1$
C. $\quad 4 \times-\frac{1}{4}=-1$
D. $\quad-4 \times \frac{1}{4}=-1$
76. Write the equation of a line that parallel to $\boldsymbol{y}=\mathbf{4 x}+\mathbf{3}$ and has a $\boldsymbol{y}$-intercept of 5 .
A. $y=4 x+5$
B. $y=-4 x+5$
C. $y=-4 x-5$
D. $y=-\frac{1}{4} x+5$
77. What is the solution set of the inequality $7+x<5$ ?
A. $\{x \mid x<2\}$
B $\quad\{x \mid x<-2\}$
C $\{x \mid x>2\}$
D $\quad\{x \mid x>-2\}$
78. What is the solution set of the inequality $4 t+2<8 t-(6 t-10)$ ?
A $\{t \mid t<-6.5\}$
B $\{t \mid t<4\}$
C $\{t \mid t>-6.5\}$
D $\{t \mid t>4\}$

Grade 9 general revision for trimester 1
79. Which of the following graphs is the solution of the inequality?

$$
-\frac{2}{3} x \leq 9
$$


80. Obaid's international calling card costs 9 fils for each minute. Which inequality can be used to find how long he can talk to a friend if he does not want to spend more than AED 2.50 on the call?
A $\quad 0.09 \geq 2.50 \mathrm{~m}$
B $\quad 0.09 \leq 2.50 \mathrm{~m}$
C $\quad 0.09 m \geq 2.50$
D $\quad 0.09 m \leq 2.50$
81. Shoe rental costs AED 2, and each game bowled costs AED 3.

How many games can Sultan bowl without spending more than AED 15 ?
A 2
B 4
C 3
D 5
82. What is the solution set of the inequality $-7<x+2<4$ ?
A $\quad\{x \mid-5<x<6\}$
C $\quad\{x \mid-9<x<2\}$
B $\quad\{x \mid-5<x<2\}$
D $\quad\{x \mid-9<x<6]$
83. The formula for acceleration in a circle is $a=\frac{v^{2}}{r}$. Which of the following shows the equation solved for $r$ ?
A $r=v$
C $r=a v^{2}$
B $r=\frac{v^{2}}{a}$
D $r=\frac{\sqrt{a}}{v}$

Grade 9 general revision for trimester 1 prepared by Adel Rezq A1 Samha school C2 \& C3 84. Which inequality best represents the statement below?

A jar contains 832 gumballs. Rashid's guess was within 46 pieces.
A $|g-832| \leq 46$
B $\quad|g+832| \leq 46$
C $|g-832| \geq 46$
D $|g+832| \geq 46$
85. ERROR ANALYSIS Buthaina and Khadija are solving $4 y \leq \frac{8}{3} x$ by graphing. Is either of them correct? Explain your reasoning.

A. Buthaina her shaded area is correct
B. Khadija her test point is correct
C. Khadija her shaded area is correct
D. no one of them is correct
86. Write a compound inequality for the graph shown below.

A $-2 \leq x<3$
B $x<-2$ or $x \geq 3$
C $x \leq-2$ or $x \geq 3$
D $-2<x \leq 3$
87. Jassim received a AED 100 gift certificate for a graduation gift. He wants to buy a CD player that costs AED 38 and CDs that cost AED 12 each. Which of the following inequalities represents how many CDs Jassim can buy?
A $n \leq 6$
B $n \geq 5$
C $n<5$
D $n \leq 5$
88. Which equation has a slope of $-\frac{2}{3}$ and a $y$-intercept of 6 ?
A $y=6 x+\frac{2}{3}$
C $y=-\frac{2}{3} x+6$
В $y=-\frac{2}{3} x-6$
D $y=6 x-\frac{2}{3}$
89. What type of line does not have a defined slope?
A horizontal
C perpendicular
B parallel
D vertical
90. The highest score that is on record on a video game is 10,219 points. The lowest score on record is 257 points. Which of the following inequalities best shows the range of scores recorded on the game?
A $x \leq 10,219$
B $x \geq 257$
C $257<x<10,219$
D $257 \leq x \leq 10,219$
91. The current temperature is $42^{\circ}$. If the temperature rises more than 4 degrees, there will be a new record high for the date. Which number line represents the temperatures that would set a new record high?


