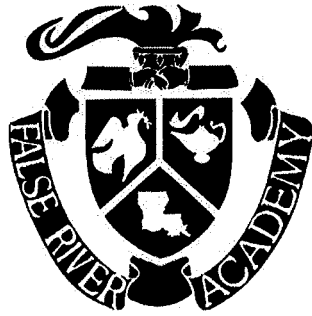


**False River Academy
New Roads, LA**



**8th Grade
Math
Summer Packet**



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Dear Parents and Guardians:

Attached are the summer curriculum review materials for 8th grade. We strongly suggest that your child complete this booklet over the course of the summer. Submission of the completed material is neither required nor necessary.

This booklet was prepared by the False River Academy mathematics teachers and contains topics that reflect content which was taught and should have been mastered during the school year. It will provide a great review for your child entering into the next grade as well as provide you a tool to see what areas your child may need extra help with before the start of the coming year.

Thank you for your cooperation.

Sincerely,

FRA Math Teachers

8th Grade Summer Packet

Name _____

1. Give the missing number.

-13 -11 -10 -9 -8 -7

- (A) 14
- (B) -14
- (C) 12
- (D) -12
- (E) none of these

2. Which sign makes the statement true?

-5 4

- (A) >
- (B) <
- (C) =
- (D) ≤
- (E) none of these

3. Put these integers in order from least to greatest. -3, 2, -5, 9

- (A) 2, -5, -3, 9
- (B) -3, 2, -5, 9
- (C) -5, -3, 2, 9
- (D) 9, 2, -3, -5
- (E) none of these

4. Put these integers in order from greatest to least. -7, -9, 2, -16, 0

- (A) 2, 0, -7, -9, -16
- (B) 0, 2, -7, -9, -16
- (C) -16, -9, -7, 2, 0
- (D) -16, -9, -7, 0, 2
- (E) none of these

5. Write $\frac{33}{55}$ in lowest terms.
- (A) $\frac{3}{5}$
 - (B) $\frac{13}{15}$
 - (C) $\frac{11}{25}$
 - (D) $\frac{6}{10}$
 - (E) none of these
6. Write $\frac{16}{18}$ in lowest terms.
- (A) $\frac{4}{6}$
 - (B) $\frac{6}{8}$
 - (C) $\frac{8}{9}$
 - (D) $\frac{5}{6}$
 - (E) none of these
7. Write 0.4 as a fraction in simplest form.
- (A) $\frac{4}{10}$
 - (B) $\frac{2}{5}$
 - (C) $\frac{40}{100}$
 - (D) $\frac{6}{15}$
 - (E) none of these
8. Write 0.05 as a fraction in simplest form.
- (A) $\frac{5}{100}$
 - (B) $\frac{1}{20}$
 - (C) $\frac{1}{25}$
 - (D) $\frac{2}{20}$
 - (E) none of these
9. Write $\frac{3}{4}$ as a decimal.
- (A) .25
 - (B) 7.5
 - (C) .075
 - (D) .75
 - (E) none of these

10. Write $-7\frac{1}{4}$ as a decimal.

- (A) -7.4
- (B) -7.25
- (C) -7.14
- (D) 7.4
- (E) none of these

11. Write 8.52 as a mixed number in simplest form.

- (A) $8\frac{52}{100}$
- (B) $8\frac{5}{2}$
- (C) $8\frac{13}{25}$
- (D) $8\frac{52}{10}$
- (E) none of these

12. Austin threw 75 pitches. 35 of those pitches were hit. What fractions of the pitches were hit?

- (A) $\frac{35}{75}$
- (B) $\frac{7}{15}$
- (C) $\frac{1}{3}$
- (D) $\frac{3}{7}$
- (E) none of these

13. Find the change in temperature for each from -24°F to 52°F

- (A) 28°F
- (B) -28°F
- (C) 76°F
- (D) -76°F
- (E) none of these

14. Which sign $<$, $>$, or $=$ makes the statement true?

$\frac{7}{8}$ $\frac{1}{5}$

- (A) $<$
- (B) $>$
- (C) $=$
- (D) \geq
- (E) none of these

15. Which sign $<$, $>$, or $=$ makes the statement true?

$$-1/2 \quad \square \quad -3/5$$

- (A) $<$
- (B) $>$
- (C) $=$
- (D) \geq
- (E) none of these

16. Write 2.40×10^3 in standard form.

- (A) 240
- (B) 24
- (C) 2,400
- (D) .240
- (E) none of these

17. Write 73,100 in scientific notation.

- (A) 731×10^2
- (B) 731×10^3
- (C) 7.31×10^4
- (D) 7.31×10^5
- (E) none of these

18. Which is greater?

- (A) 160% of 30
- (B) 25% of 20
- (C) 300% of 60
- (D) 45% of 50
- (E) none of these

19. Which is less?

- (A) 180% of 30
- (B) 175% of 28
- (C) 300% of 10
- (D) 45% of 50
- (E) none of these

20. Find the percent of increase or decrease and round to the nearest whole percent.

Original: \$4,000 Sale: \$3,000

- (A) 25% decrease
- (B) 1000% decrease
- (C) 25% increase
- (D) 1000% increase
- (E) none of these

21. Find the percent of increase or decrease and round to the nearest whole percent.

Original: \$45.62 Sale: \$32.75

- (A) 12.87% decrease
- (B) 12.87% increase
- (C) 28% increase
- (D) 28% decrease
- (E) none of these

22. The price of a graphing calculator dropped from \$125.00 to \$87.50. What is the sale percent?

- (A) 37.5%
- (B) -37.5%
- (C) 3%
- (D) 30%
- (E) none of these

23. A stereo system priced at \$385.00 cost \$406.18 after tax is added. What is the percent of tax?

- (A) 5.5%
- (B) 21.18%
- (C) -21.18%
- (D) 4%
- (E) none of these

Solve the following problems:

24. $(8 - 2)^2 + (10 \div 2)$

- (A) 9
- (B) 41
- (C) 65
- (D) 35
- (E) none of these

25. $(13 \times 2 - 7^2) + 5$

- (A) -18
- (B) 17
- (C) 14
- (D) 49
- (E) none of these

26. $(45 - 3^2) \div 24 - 2^2$

- (A) -2.375
- (B) -2.5
- (C) 69.5
- (D) -0.5
- (E) none of these

27. $-5(2n + 7w)$ if $w = -5$ and $n = 5$

- (A) 125
- (B) -125
- (C) -45
- (D) 45
- (E) none of these

28. $-4r - 2(5 - 8n)$ if $n = 4$ and $r = 5$

- (A) 94
- (B) 74
- (C) 34
- (D) -94
- (E) none of these

29. $\frac{18}{f} + 8 + 7d$ if $f = 6$ and $d = -3$

- (A) -10
- (B) 32
- (C) 15
- (D) 21
- (E) none of these

30. $-90 - (-91) =$

- (A) 181
- (B) -181
- (C) -1
- (D) 1
- (E) none of these

31. $63 - (-84) =$

- (A) 147
- (B) -147
- (C) -21
- (D) 21
- (E) none of these

32. $-62 + 64 =$

- (A) 126
- (B) -2
- (C) 2
- (D) -126
- (E) none of these

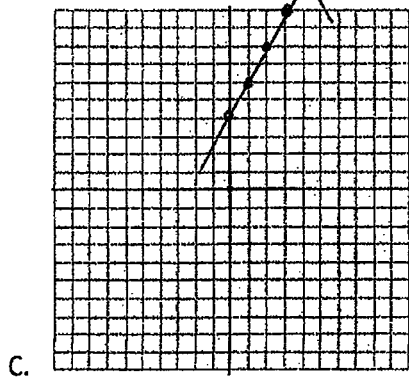
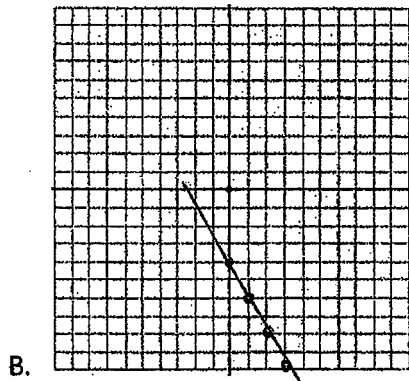
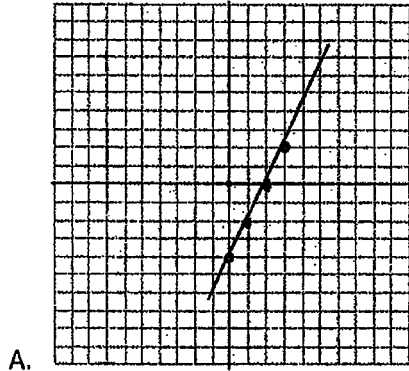
33. $-35 + (-93) =$

- (A) 128
- (B) -128
- (C) -58
- (D) 58
- (E) none of these

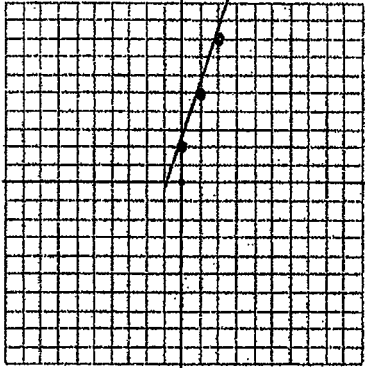
34. $9 + (-54) =$

- (A) -63
- (B) 45
- (C) -45
- (D) 63
- (E) none of these

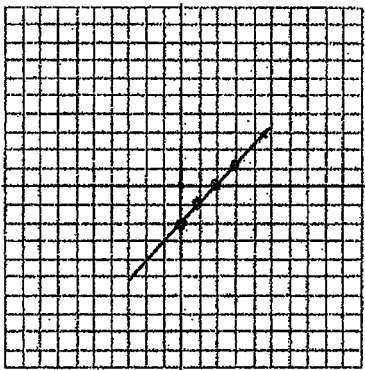
35. Create a function table (t-table) to determine which graph matches the equation- $y = -2x - 4$



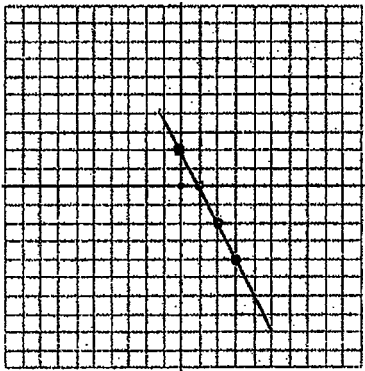
36. Create a function table (t-table) to determine which graph matches the equation- $y = 3x + 2$



A.



B.



C.

37. A line with the following coordinates would be $(-4, 1)$ & $(4, 1)$?

- (A) No slope
- (B) Undefined
- (C) $y = 3/4x$ slope
- (D) $y = 1/2x$ slope
- (E) none of these

38. $11^2 \cdot 8^2 =$

- (A) 38
- (B) -38
- (C) 185
- (D) 7,744
- (E) none of these

39. $\frac{16}{y} = \frac{10}{21} \quad y = ?$

- (A) $y = 4$
- (B) $y = 33.6$
- (C) $y = 3$
- (D) $y = 7.62$
- (E) none of these

40. If Layla can type a 420 word essay in 12 minutes, what is the unit rate?

- (A) 12 words
- (B) 35 words
- (C) 32 words
- (D) 42 words
- (E) none of these

41. Which number is closest to $\sqrt{7}$

- (A) 2
- (B) 3
- (C) 6
- (D) 7
- (E) none of these

42. Which number is closest to $\sqrt{45}$

- (A) 6
- (B) 7
- (C) 8
- (D) 9
- (E) none of these

43. A set of coordinates with (+, +) would fall in which quadrant?

- (A) I
- (B) II
- (C) III
- (D) IV
- (E) x-axis

44. A set of coordinates with $(-, +)$ would fall in which quadrant?
(A) I
(B) II
(C) III
(D) IV
(E) y-axis
45. A stock gained 2.5 points, lost 1.75 points, gained .5 points, and then lost 5 points. What was the total change in the stock's price?
(A) -.25
(B) -.75
(C) -3.75
(D) .9375
(E) none of these
46. On February 14th, the balance of Ashley's checking account was \$187.50. On February 17th, she deposited \$92.85. On February 18th, she wrote a check for \$130.25. The next day, she wrote a check for \$21.14. What was Ashley's ending balance?
(A) \$21.14
(B) \$128.96
(C) \$431.74
(D) -\$56.74
(E) none of these
47. If a custodian can clean 20 rooms in 3 hours, approximately how long will it take him to clean 45 rooms?
(A) 300 hours
(B) 1.333 hours
(C) 6.75 hours
(D) 6 hours
(E) none of these
48. $\frac{1}{4}x - 42 = -30$
(A) $x = 72$
(B) $x = 48$
(C) $x = -72$
(D) $x = -18$
(E) none of these

49. $-4.5 = 6.3 - 5x$

- (A) $x = -2.16$
- (B) $x = 4.8$
- (C) $x = -4.8$
- (D) $x = 2.16$
- (E) none of these

50. $3.5 + 0.5x = -6.25$

- (A) $x = -19.5$
- (B) $x = 19.5$
- (C) $x = 5.5$
- (D) $x = -5.5$
- (E) none of these

51. $6 = -9 + \frac{k}{5}$

- (A) $k = -75$
- (B) $k = 75$
- (C) $k = 15$
- (D) $k = -15$
- (E) none of these

52. $35 - 9x = 17$

- (A) $x = -2$
- (B) $x = 2$
- (C) $x = 3$
- (D) $x = -3$
- (E) none of these

Use this chart to answer questions 53-55.

	Games Won	Games Lost	Total No. of Games Played
First Week	5	3	8
Second Week	4	4	16
Third Week	5	2	23
Fourth Week	6	3	32
Fifth Week	4	2	38
Sixth Week	3	3	44
Seventh Week	2	4	50

53. How many games did the team win during the first seven weeks?

- (A) 32
- (B) 29
- (C) 25
- (D) 21
- (E) 50

54. According to the chart, which week was the worst for the team?

- (A) second week
- (B) fourth week
- (C) fifth week
- (D) sixth week
- (E) seventh week

55. What percent of the games did the team win?

- (A) 75%
- (B) 60%
- (C) 58%
- (D) 29%
- (E) 80%