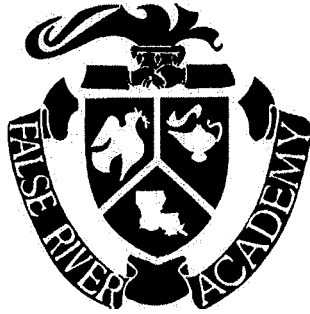
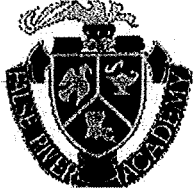


**False River Academy**  
**New Roads, LA**

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**6<sup>th</sup> Grade**  
**Math**  
**Summer Packet**



**False River Academy**  
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**[www.falseriveracademy.org](http://www.falseriveracademy.org)**

Dear Parents and Guardians:

Attached are the summer curriculum review materials for 6<sup>th</sup> 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

Name \_\_\_\_\_ Date \_\_\_\_\_

6th Grade Summer Packet Assessment (7th Grade Pre-test)

Complete all of the problems in this packet without a calculator. Circle your answers on these pages. Show your work on loose-leaf paper and staple it to the packet.

**Number and Number Relations**

1. Which is a prime number?

- A.** 24 **B.** 51 **C.** 36 **D.** 64

2. What is the prime factorization of 18?

- A.**  $2 \times 3 \times 3$  **B.**  $3 \times 3 \times 3$  **C.** 18 **D.**  $1 \times 2 \times 2 \times 3 \times 3$

3. What are all the factors of 6?

- A.** 1, 2, 3 **B.** 2, 3, 6, 9 **C.** 1, 3 **D.** 1, 2, 3, 6

4. What is the greatest common factor of 16 and 24?

- A.** 1 **B.** 2 **C.** 4 **D.** 8

5. What is the least common multiple of 12 and 26?

- A.** 2 **B.** 12 **C.** 10 **D.** 26

6. At a party, the pepperoni pizza is cut into 25 slices and the veggie pizza is cut into 10 slices. If the host wants to serve identical platters that contain the same combination of cheese and veggie slices, with no slices left over, what is the greatest number of platters the host can prepare?

- A.** 2 **B.** 5 **C.** 20 **D.** 18

7. Which shows  $6\frac{3}{4}$  as a decimal?

- A.** 6.45 **B.** 6.75 **C.** 7.75 **D.** 6.5

8. How do you write 0.5 as a fraction?

- A.**  $\frac{1}{50}$  **B.**  $\frac{1}{5}$  **C.**  $\frac{1}{4}$  **D.**  $\frac{1}{2}$

9. Sunview Middle School uses 6.34 boxes of computer paper each day in its computer lab. Write this amount as a mixed number in simplest form.

- A.**  $6\frac{17}{50}$    **B.**  $6\frac{34}{100}$    **C.**  $6\frac{3}{5}$    **D.**  $6\frac{3}{6}$

10. Which fraction is greater,  $\frac{6}{7}$  or  $\frac{7}{9}$ ?

- A.**  $\frac{6}{7}$    **B.**  $\frac{7}{9}$    **C.** neither; they are equal

11. Which sign makes the sentence true?  $0.387 \square 0.384$

- A.**  $>$    **B.**  $<$    **C.**  $=$

12. Which sign makes the sentence true?  $-9 \square 9$

- A.**  $>$    **B.**  $<$    **C.**  $=$

13. How do you write 0.008 in words?

- A.** eight hundredths   **B.** eight tenths   **C.** eight thousandths

14. Which represents a gain of \$7?

- A.** -7   **B.** 0   **C.** 7   **D.**  $\frac{1}{7}$

15. Mary put 0.6 grams of salt in a recipe of soup. Then, he let the soup cook for an hour. Before he served the soup, Mary added 0.3 grams of salt. How much salt did Mary add to the soup in all?

- A.** 1.2 grams   **B.** 1.0 gram   **C.** 0.9 grams   **D.** 1.1 grams

16. William filled a bucket with  $\frac{1}{3}$  of a gallon of water. Later, he poured out  $\frac{1}{6}$  of a gallon of the water. How much water is left in the bucket? Simplify your answer.

- A.**  $\frac{3}{6}$    **B.**  $\frac{1}{2}$    **C.**  $\frac{2}{9}$    **D.**  $\frac{1}{6}$

17. Estimate  $7.45 \times 4.99$  (round each to nearest whole number, then multiply).

- A.** 28   **B.** 35   **C.** 40   **D.** 21

18. Multiply:  $800 \times 8000 = ?$

- A.** 64,000,000   **B.** 640,000,000   **C.** 6,400,000   **D.** 6,400,000,000

19. Divide:  $742.4 \div 0.5 = ?$

- A. 3.712 B. 31.72 C. 3712 D. 371.2

20. What is the ratio of black ducks to grey ducks?



- A. 5:3 B. 3:5 C. 3:2 D. 2:3

### Algebra

21. What is  $\overline{81}$ ?

- A. 9 B. 32 C. 8 D. 64

22. Luis has  $x$  big spoons and 24 small spoons. Choose the expression that shows how many spoons Luis has.

- A.  $x - 24$  B.  $24 - x$  C. 24 D.  $x + 24$

23. Find the value of the expression  $25 - n$  for  $n = 8$ .

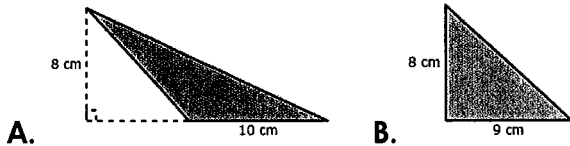
- A. 16 B. 8 C. 17 D. 7

24. Solve for  $u$ .  $5(u + 10) = 125$

- A.  $u = 15$  B.  $u = 20$  C.  $u = 23$  D.  $u = 27$

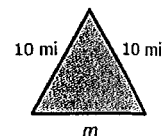
### Measurement

25. Which figure below has a smaller area?



26. If the triangle's perimeter = 35 miles. What is the length of  $m$ ?

- A. 10 miles B. 15 miles C. 20 miles D. 5 miles



27. Which is the better buy?

- A. 5-pound bag of candy for \$15.50    B. 6-pound bag of candy for \$18.44

28. Which is the better estimate for the weight of a dog?

- A. 46 grams    B. 46 ounces    C. 46 pounds

29. Find the area of a rectangle with length 15 feet and width 6 feet.



- A. 42 square feet    B. 90 square feet    C. 80 square feet    D. 21 square feet

### Geometry

30. Bryan built a 3-dimensional figure that had a triangle base. Which figure could Bryan have built?

- A.  cube    B.  cylinder    C.  sphere    D.  triangular pyramid

31. Which net will make this figure?

- A.     B. 



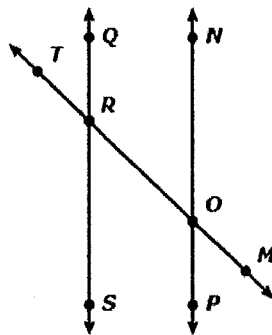
32. Is the angle acute, obtuse, right or straight?

- A. acute    B. obtuse    C. right    D. straight

33. Which angles are supplementary angles?

$\overleftrightarrow{NP}$  and  $\overleftrightarrow{QS}$  are parallel lines.

- A.  $\angle SRO$  and  $\angle NOR$   
B.  $\angle SRO$  and  $\angle QRT$   
C.  $\angle SRO$  and  $\angle POM$   
D.  $\angle SRO$  and  $\angle QRO$



34. In which quadrant is  $(4, -3)$ ?

- A. Quadrant I B. Quadrant II C. Quadrant III D. Quadrant IV

### Data Analysis, Probability, and Discrete Math

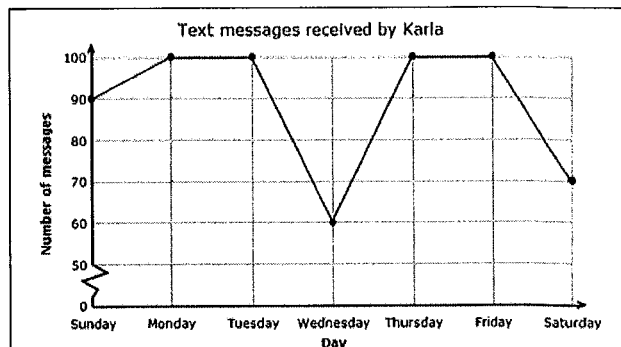
35. The frequency table shows the favorite colors selected by a class of preschool children. What do you think is the least commonly selected color?

- A. red B. blue C. yellow D. pink

Favorite Color		
Color	Tally	Frequency
red	 	8
blue		3
pink	 	7
yellow	 	5
orange		2

36. When did Karla receive the most text messages?

- A. Monday-Tuesday  
B. Thursday-Friday  
C. Wednesday only  
D. A and B



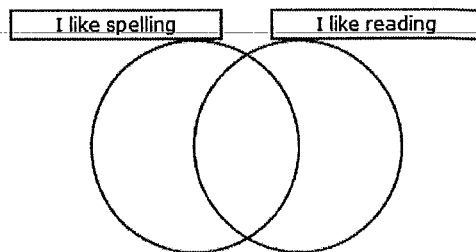
37. How many yards equal 12 feet?

- A. 4 B. 6 C. 8 D. 36

38. What is the range for the following set of data? 22, 37, 26, 22, 31, 34

- A. 22 B. 26 C. 27 D. 33

39. 8 of the children in Lauren's class like spelling. 6 children like reading, and 2 children like both spelling and reading.



How many children like spelling but not reading?

- A. 2 B. 4 C. 6 D. 8**

40. How many sandwiches are possible from a choice of white, wheat, or rye bread and a choice of turkey or ham?

- A. 6 B. 7 C. 8 D. 9**

41. A number cube is rolled once. Find the probability of rolling an even.

- A. 20% B. 30% C. 40% D. 50%**

### Patterns, Relations, and Functions

42. What number is missing in the function table?

- A. 30 B. 31 C. 32 D. 33**

Function: $b = 4a - 5$	
6	19
7	23
8	27
9	?

43. Joseph read 3 pages on Tuesday, 9 pages on Wednesday, 27 pages on Thursday, and 81 pages on Friday. If this pattern continues, how many pages will Joseph read on Saturday?

- A. 243 B. 120 C. 82 D. 122**