

Math Madness # 75

1. Petra's dog had 4 puppies. This chart shows the weight of each puppy.

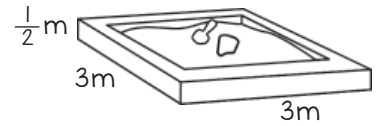
Which list shows the puppies ordered from heaviest to lightest?

- a. Spot, Buddy, Bella, Fido
- b. Buddy, Bella, Fido, Spot**
- c. Buddy, Bella, Spot, Fido
- d. Spot, Buddy, Fido, Bella

Puppy	Weight
Spot	$1\frac{12}{15}$ kg
Bella	2.11 kg
Fido	1.85 kg
Buddy	$2\frac{1}{8}$ kg

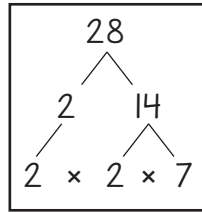
5. Mitch will buy sand to fill this sandbox. Each bag holds 1 cubic meter of sand. How many bags of sand does Mitch need to buy?

- a. 4
- b. 5**
- c. 9
- d. 10



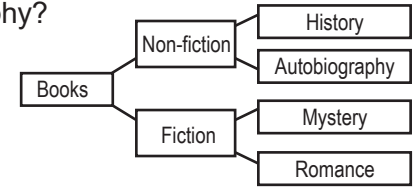
2. The factor tree for the number 28 is shown below. According to this factor tree, which statement is true?

- a. 14 is a prime number
- b. 28 is a prime number
- c. 2 and 7 are prime numbers**
- d. The only prime factor of 28 is 2



6. This tree diagram shows the books Tim can choose from. The librarian has an equal number of each type of book on a shelf. If Tim randomly takes one book off the shelf, what is the probability he will pick an autobiography?

- a. $\frac{1}{8}$
- b. $\frac{1}{6}$
- c. $\frac{1}{5}$
- d. $\frac{1}{4}$**



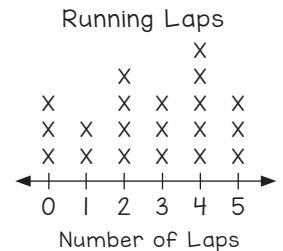
3. A manufacturer shipped 2,348 boxes to 3 stores and 1,964 boxes to 4 stores. How many boxes did the manufacturer ship in all?

- a. 7,044
- b. 7,856
- c. 13,890
- d. 14,900**

7. A coach made this line plot to show the number of laps each athlete ran one afternoon.

If each lap is $\frac{1}{4}$ mile, how many athletes ran at least 1 mile?

- a. 3
- b. 8**
- c. 14
- d. 18



4. Jamal must solve this equation.

$$336 = \underline{\quad ? \quad} + (18 \times 3)$$

Which could Jamal do to find the missing number?

- a. Add the product of 18 and 3 to 336
- b. Divide the product of 18 and 3 by 336
- c. Subtract the product of 18 and 3 from 336**
- d. Multiply 18 and 3 and then subtract 336

8. Ross created the pattern shown. Write T for true or F for false to answer each statement.

26.7, 36.225, 45.75, , 64.8

- T The missing number is 55.275.
- T The rule for this pattern is add 9.525.
- F If the pattern continues, the next number will be 74.32.

9 & 10 (2 points) Constructed Response

This stem-and-leaf plot shows the spelling test scores for the students in a class.

What are the top three test scores? 95, 95, 100

According to the grading scale, how many students earned an A? 9

Henry earned the same score as five other students. What was Henry's score? 85

Grading Scale	
Grade	Score
A	90-100
B	80-89
C	70-79
D	60-69

