

2008 FRANKLIN MATH BOWL
Sixth Grade Exam

- 1) The bill for dinner, including tip, is \$130. If five people split the bill evenly, how much did each person have to pay?
A) \$26 B) \$27.50 C) \$23 D) \$24.50

Use an integer to represent the value in the statement.

- 2) 218 feet below sea level
A) -218

B) 218

- 3) Which sets of numbers does the number 0.4747... belong to?

A) irrational, real

B) rational, real

C) natural, rational, real

D) real

- 4) $-3 - 8$

A) 11

B) -5

C) -11

D) 5

- 5) $7^2 - 4 \cdot 7 = ?$

A) $x=315$

B) $x=63$

C) $x=21$

D) $x=147$

- 6) 150 is what percent of 96? Round your answer to the nearest tenth.

A) 64%

B) 1.6%

C) 156.3%

D) 15.6%

- 7) Write in symbols: the absolute value of negative six is greater than three.

A) $|-3| > 6$

B) $|-6| > 3$

C) $|6| > 3$

D) $-|6| > 3$

- 8) Noah Field decided to sell 290 shares of stock, which decreased in value by \$3.50 per share yesterday. How much money did he lose?

A) \$286.50

B) \$5075

C) \$2030

D) \$1015

- 9) $\frac{-24}{0} = ?$

A) 0

B) 1

C) undefined

D) 24

- 19) Erika spent $\frac{5}{6}$ of an hour on her computer visiting the History Channel and the Discovery Channel websites. She spent $\frac{1}{5}$ of an hour at the History Channel website. How many hours did she spend at the Discovery Channel website?
- A) $\frac{2}{15}$ hr B) $\frac{4}{5}$ hr C) $\frac{3}{5}$ hr D) $\frac{19}{30}$ hr
- 20) What is the value of $9y + \frac{65}{x}$ if $x = 5$ and $y = 7$?
- A) 128 B) 76 C) 13 D) 22
- 21) $(5 - 10) \div \frac{-10 - 15}{-3 - 2} - \frac{1}{5} = ?$
- A) $-\frac{5}{6}$ B) $\frac{5}{6}$ C) $\frac{6}{5}$ D) $-\frac{6}{5}$
- 22) Solve the equation: $3(2x - 1) = 12$
- A) $\frac{13}{6}$ B) $\frac{11}{6}$ C) $\frac{3}{2}$ D) $\frac{5}{2}$
- 23) Trina wants to buy a new purse. The store has purses in five different colors. Purses come with shoulder straps or not, and each purse has beads or plain. How many different purses will Trina have to choose from?
- A) 20 B) 70 C) 100 D) 40
- 24) Sally is making a cover for a round table. When finished, the cover will fit exactly with no excess hanging off. Sally has to cut the fabric circle with a 4 inch larger diameter than the table to allow for hemming. If the table has a diameter of 58 inches, how much fabric does Sally need? (Use 3.14 for π . Round to 2 decimal places.)
- A) 3419.46 sq in. B) 11,304 sq in.
 C) 12,070.16 sq in. D) 3017.54 sq in.
- 25) Michelle can mop a floor in 15 minutes. Loyd can mop the same floor in 11 minutes. If they work together how long would it take them?
- A) 6.35 minutes B) 6.30 minutes C) 5.35 minutes D) 5.39 minutes