

6th grade EOG REVIEW Lesson #2: Operations

<p>1. Mr. Hartwell ordered 27 kites for his scout troop. The regular price was \$18 per kite, but he received a \$2 discount per kite. How much did Mr. Hartwell spend on kites?</p> <p>A. \$540 B. \$486 C. \$450 D. \$432</p>	<p>2. Joseph has 790 mugs to pack into cartons that hold 32 mugs each. How many mugs will be left over after the last carton is full?</p> <p>A. 22 B. 24 C. 25 D. 32</p>
<p>3. A flowerbed with a width of 1.2 meters has an area of 4.08 square meters. What is the length of the flowerbed?</p> <p>A. 34 meters B. 3.4 meters C. 3.04 meters D. 0.34 meters</p>	<p>4. Lester is mailing two packages. The packages weigh 5.25 pounds and 3.3 pounds. Postage will cost \$1.20 per pound. What will be the cost of mailing both packages?</p> <p>A. \$6.70 B. \$8.80 C. \$9.75 D. \$10.26</p>
<p>5. Arlene practiced the drums for $\frac{3}{4}$ hour on Monday and $\frac{5}{6}$ hour on Tuesday. How long did she practice altogether?</p> <p>A. $1\frac{7}{12}$ B. $1\frac{1}{3}$ C. $1\frac{1}{2}$ D. $1\frac{4}{5}$</p>	<p>6. How many $\frac{3}{4}$-inch pieces of wood can be cut from a strip 15 inches long?</p> <p>A. 9 B. $11\frac{1}{4}$ C. $12\frac{1}{2}$ D. 20</p>
<p>7. Henry needs $3\frac{3}{8}$ yards of fabric to make a window shade. He has a piece of fabric that is $1\frac{2}{3}$ yards. How much more fabric does Henry need?</p> <p>A. $2\frac{1}{5}$ B. $1\frac{17}{24}$ C. $1\frac{5}{24}$ D. $1\frac{1}{5}$</p>	<p>8. To make a set of curtains, Robert needs $3\frac{1}{2}$ lengths of fabric each $6\frac{2}{3}$ feet long. How many feet of fabric does he need in all?</p> <p>A. $10\frac{1}{6}$ B. $18\frac{2}{3}$ C. 21 D. $23\frac{1}{3}$</p>

9. Jake bought $2\frac{3}{8}$ yards of fabric of fabric to make a vest. He paid \$5.89 per yard. About how much did Jake pay for the fabric? Round numbers to the nearest half and dollar.

- A. \$3
- B. \$11
- C. \$14
- D. \$20

10. Kim's heart beats 72 times per minute. Which is the **best** estimate of the total number of times Kim's heart beats in one year.

- A. 320,000 times
- B. 480,000 times
- C. 32,000,000 times
- D. 64,000,000 times

11. Maya and her family are driving to her aunt's house. The total distance is 1,875 miles. Their car can travel approximately 350 miles per tank of gas. What is a reasonable amount of gas for them to expect to need for the trip?

- A. 2 or 3 tanks
- B. 3 or 4 tanks
- C. 4 or 5 tanks
- D. 5 or 6 tanks

12. Sara will go golfing 12 different days this month. A one-day pass to the gym is \$12.95. A monthly pass to the gym is \$150. How much money will Sara save by buying a monthly pass?

- A. \$137.05
- B. \$238
- C. \$5.40
- D. \$5.00

13. To clean a tank, $\frac{5}{8}$ cup of disinfectant is needed for every 5 gallons of water. How many cups of disinfectant are needed for 32 gallons of water?

- A. 4
- B. $3\frac{1}{2}$
- C. 5
- D. $5\frac{2}{3}$

14. Simplify: $(\frac{2}{3})^3$

- A. $\frac{12}{27}$
- B. $\frac{12}{36}$
- C. $\frac{6}{9}$
- D. $\frac{8}{27}$

15. A rectangular room has an area of $20\frac{2}{3}$ square feet. The width of the room is $2\frac{2}{15}$ feet. What is the length of the room?

- A. $1\frac{15}{16}$
- B. $9\frac{11}{16}$
- C. $18\frac{8}{15}$
- D. $22\frac{4}{5}$