

5th Grade Math Quiz

(continued)

13 A box holds 24 cookies. If $\frac{1}{3}$ of them are chocolate chip, how many chocolate chip cookies are there?

- A. 6
B. 8
C. 12
D. 3

14 Which number is both a multiple of 3 and a multiple of 4? _____

- A. 8
B. 9
C. 12
D. 15

15 What is the area of a triangle with a base of 10 cm and a height of 6 cm? _____

- A. 60 sq cm
B. 16 sq cm
C. 30 sq cm
D. 36 sq cm
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5th Grade Math Quiz — Answer Key

1. B 1 1/4

Convert $1/2$ to $2/4$, then add: $3/4 + 2/4 = 5/4$, which equals $1\ 1/4$. Both $5/4$ and $1\ 1/4$ represent the same value, but the simplified mixed number is $1\ 1/4$.

2. A 7.05

Line up the decimal points: $4.70 + 2.35 = 7.05$. Adding a zero after 4.7 makes the place values easier to see.

3. C 30 cubic cm

Volume = length x width x height = $5 \times 3 \times 2 = 30$ cubic centimeters. Volume is always measured in cubic units.

4. B 4/10

Multiply both the numerator and denominator by 2: $2/5 = 4/10$. Both fractions represent the same portion.

5. B 4/8

When fractions have the same denominator, subtract the numerators: $7/8 - 3/8 = 4/8$, which simplifies to $1/2$.

6. B 3.5

The tenths place is the 4. Look at the hundredths place (5): since it is 5 or greater, round up. 3.456 rounds to 3.5.

7. B 6

Multiplying by 0.5 is the same as dividing by 2. $12 \times 0.5 = 6$.

8. C 1/2

Convert to decimals: $1/3 = 0.333$, $2/5 = 0.4$, $1/2 = 0.5$, $3/8 = 0.375$. $1/2$ (0.5) is the largest.

9. B 1/3 cup

Half of $2/3$ is $(2/3) \times (1/2) = 2/6$, which simplifies to $1/3$ cup.

10. C 400

Dividing by 0.25 is the same as multiplying by 4 (because $1/0.25 = 4$). $100 \times 4 = 400$.

11. B 3

In an ordered pair (x, y), the first number is always the x-coordinate (horizontal position). So 3 is the x-coordinate and 5 is the y-coordinate.

12. B 0.6

Divide 3 by 5: $3/5 = 0.6$. You can also think of it as $6/10$, which is clearly 0.6.

13. B 8

$1/3$ of 24 = 24 divided by 3 = 8 chocolate chip cookies.

14. C 12

12 is divisible by both 3 ($12/3 = 4$) and 4 ($12/4 = 3$). It is the least common multiple of 3 and 4.

15. C 30 sq cm

Area of a triangle = (base x height) / 2 = $(10 \times 6) / 2 = 60 / 2 = 30$ square centimeters.