

Review 2B : Operations with Decimals and Fractions

- A large bag of cashews weighs $8\frac{1}{3}$ pounds. One serving is $\frac{1}{3}$ pound. How many servings are in the bag?
A $23\frac{13}{15}$ C 25
B $24\frac{1}{15}$ D $25\frac{7}{15}$
- What is the reciprocal of $\frac{5}{8}$?
A $-\frac{8}{5}$ C -5
B $-\frac{5}{8}$ D $\frac{8}{5}$
- Mariel wrote these checks from her checking account: \$10, \$10, \$31, and \$10. Which number shows the change in the balance of her account?
A -\$61 C \$1
B -\$1 D \$61
- Mr. Franklin paid \$33.20 for 8 gallons of gas. What is the price of 1 gallon of gas?
A \$4.05 C \$4.15
B \$4.13 D \$4.25
- The area of a library tabletop is $27\frac{1}{8}$ square feet. The table is $3\frac{1}{2}$ feet wide. What is the length of the table?
A 7 ft C $7\frac{7}{8}$ ft
B $7\frac{3}{4}$ ft D 8 ft
- Which expression has the same value as $8 - (-4)$?
A $-8 + 4$ C $8 + (-4)$
B $-8 + (-4)$ D $4 - (-8)$
- Deion has a $\frac{3}{4}$ -pound bag of dog treats. He will give his dog $\frac{1}{8}$ pound of the treats after they play each day. How many days will the bag last?
A 6 days C 8 days
B 7 days D 9 days
- A horseshoe weighs 8.2 ounces. The nails make up 0.2 of that weight. What is the weight of the horseshoe without the nails?
A 1.64 oz C 9.84 oz
B 6.56 oz D 16.4 oz
- A trampoline has a rectangular jumping surface that is 10.3 feet long and 9.2 feet wide. What is the area of the jumping surface?
A 9.476 ft² C 947.6 ft²
B 94.76 ft² D 9,476 ft²
- How does the product of two negative factors compare to the original factors?
A The product is less than the factors.
B The product will be equal to one factor.
C The product will be greater than or equal to one factor.
D The product will be greater than the factors.
- Which expression has an answer that is negative?
A $(-48) \div 6$ C $(-6)(-3)$
B $(-48) \div (-6)$ D $(6)(3)$
- In 4 hours, the temperature steadily fell from 0°F to -12°F. What was the average change in temperature per hour?
A -8°F C -2°F
B -3°F D 3°F

13. Of the animals at the shelter, $\frac{5}{8}$ are cats.

Of the cats, $\frac{2}{3}$ are kittens. What fraction of the animals at the shelter are kittens?

14. Ian has a 12.2-ounce bottle of ketchup. He uses $\frac{1}{20}$ of the ketchup every time he has a buffalo burger. How many ounces of ketchup are left after Ian has eaten 4 buffalo burgers?
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15. a. Mr. Gordon weighs 205 pounds. Multiply his Earth weight by 0.91 to find how much he would weigh on the planet Venus.
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- b. What is the difference between Mr. Gordon's Earth weight and his weight on Venus?
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16. Write an integer expression that has the same value as $36 \div (-9) + (-5)$.
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17. The diameter of a U.S. penny is $\frac{3}{4}$ inch. How many pennies would it take to make a row 42 inches long?
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18. A football team lost 4 yards on each of 2 plays, gained 14 yards on the third play, and lost 5 yards on the fourth play. Write and find the value of an integer expression to find the change in their field position.

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19. Dwayne earns \$11.45 per hour. Last week he worked $38\frac{1}{4}$ hours. How much did he earn last week?
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20. Explain how you can determine the sign of an integer quotient without dividing.
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21. Maya tried to play a new video game. On her first 4 tries, she lost 14 points, lost 8 points, won 2 points, and lost 8 points, and finally gave up. Write and find the value of an integer expression to show her final score.
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22. a. Brooke paid \$45 for a course on candle-making. She spent \$106 for wax and supplies, but later returned one \$8 candle mold. Write and find the value of an integer expression to show the change in the amount of money she has.
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- b. If Brooke sells her candles for \$9 each, how many will she have to sell before she makes a profit?
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