



Decimal Word Problems for 5th Grade

Questions

1. Asha started with 1.74 cups and ended with half a cup of sugar after baking. How much sugar did she use in the baking process?
2. Convert $\frac{3}{8}$ to a decimal
3. Dennis has 6.77 litres of water in a barrel. How many litres of water does he need to add to get 7.50 litres in the barrel?
4. Order these decimals from smallest to largest:
0.2, 0.28, 0.19, 0.09, 0.35
5. Dilly wants to eat just about ten calories per brownie. Which of these brownies should he eat?
Brownie A = 8.98 calories
Brownie B = 9.89 calories
Brownie C = 9.98 calories
Brownie D = 10.03 calories
Brownie E = 10.30 calories
6. What is $\frac{4}{100}$ as a decimal?
7. Tabby wants to learn to rank the numbers 0.3, 0.03 and 0.33 from smallest to largest. Which of these sets are correctly ranked?
Set 1: 0.03, 0.33, 0.3
Set 2: 0.03, 0.3, 0.33
Set 3: 0.33, 0.3, 0.03
8. What is $\frac{30}{75}$ as a decimal?
9. Jenine buys a pack of oranges for \$3.05, a bunch of strawberries for \$1.49 and a case of apples for \$2.30. What does her total bill come to?
10. Convert $\frac{15}{8}$ to a decimal





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Answers

- 1. 1.24 cups of sugar**
Half a cup can be written as 0.50 in decimal form.
 $1.74 - 0.50 = 1.24$
- 2. 0.375**
When converting to decimals, try to convert the denominator to either 10, 100 or 1000. Try:
 $8 \times 125 = 1000$. Then $3 \times 125 = 375$
The fraction is now easier to convert being $375/1000 = 0.375$
- 3. 0.73**
 $6.77 + 0.73 = 7.50$
- 4. 0.09, 0.19, 0.2, 0.28, 0.35**
0.09 is the smallest
0.19 is bigger
0.2 is bigger
0.28 is bigger
0.35 is the biggest
- 5. Brownie C**
9.98 is within 0.02 of 10 making it the closest of the options to 10.
- 6. 0.04**
When dividing by 100, you should move **two** decimal places to the right. Moving 4 two decimal places to the right equals 0.04. You can also think of 100 as 10×10 . And:
 $4/10 = 0.4$
 $0.4/10 = 0.04$
- 7. Set 2**
When converting to decimals, try to convert the denominator to either 10, 100 or 1000. Try:
 $75/15 = 5$ and $5 \times 20 = 100$. Then $30/15 = 2$ and $2 \times 20 = 40$
The fraction is now easier to convert being $40/100 = 0.4$
- 8. 0.4**
When converting to decimals, try to convert the denominator to either 10, 100 or 1000. Try:
 $75/15 = 5$ and $5 \times 20 = 100$. Then
 $30/15 = 2$ and $2 \times 20 = 40$
The fraction is now easier to convert being $40/100 = 0.4$
- 9. 6.84**
It helps to first add the numbers after the decimal point.
 $5 + 49 + 30 = 84$
Then add the numbers in front of the decimal point.
 $3 + 1 + 2 = 6$
Together they make 6.84
- 10. 1.875**
When converting to decimals, try to convert the denominator to either 10, 100 or 1000. Try:
 $8 \times 125 = 1000$ then:
 $15 \times 125 = 1875$
The fraction is now easier to convert being $1875/1000 = 1.875$

