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23.  $(-2)^{11} \times (-2)^{13} = (-2)$
25.  $\left(\frac{11}{15}\right)^4 \times (\text{---})^5 = \left(\frac{11}{15}\right)^9$
27.  $\left[\left(\frac{7}{11}\right)^3\right]^4 = \left(\frac{7}{11}\right)^{-}$
29.  $\left[\left(\frac{-1}{4}\right)^{16}\right]^2 = \left(\frac{-1}{4}\right)^{-}$
31.  $a^6 \times a^5 \times a^0 = a^{-}$
33. 1 millton =  $10^{-}$
35.  $432 = 2^4 \times 3^{-}$
37.  $8888000000 = \text{---} \times 10^{10}$
39.  $340900000 = 3.409 \times 10^{-}$
40. Fill in the blanks with <, > or = sign.
- (a)  $3^2$  \_\_\_\_\_ 15
- (b)  $2^3$  \_\_\_\_\_  $3^2$
- (c)  $7^4$  \_\_\_\_\_  $5^4$
- (d) 10,000 \_\_\_\_\_  $10^5$
- (e)  $6^3$  \_\_\_\_\_  $4^4$

24.  $(-3)^8 \div (-3)^5 = (-3)$
26.  $\left(\frac{-1}{4}\right)^3 \times \left(\frac{-1}{4}\right)^{-} = \left(\frac{-1}{4}\right)^{11}$
28.  $\left(\frac{6}{13}\right)^{10} \div \left[\left(\frac{6}{13}\right)^5\right]^2 = \left(\frac{6}{13}\right)^{-}$
30.  $\left(\frac{13}{14}\right)^5 \div (\text{---})^2 = \left(\frac{13}{14}\right)^3$
32. 1 lakh =  $10^{-}$
34.  $729 = 3^{-}$
36.  $53700000 = \text{---} \times 10^7$
38.  $27500000 = 2.75 \times 10^{-}$
41. One million =  $10^7$
42. One hour =  $60^2$  seconds
43.  $1^0 \times 0^1 = 1$
44.  $(-3)^4 = -12$
45.  $3^4 > 4^3$
46.  $\frac{-3}{5}^{100} = \frac{-3^{100}}{-5^{100}}$

47.  $(10 + 10)^{10} = 10^{10} + 10^{10}$
48.  $x^0 \times x^0 = x^0 \div x^0$  is true for all non-zero values of  $x$ .
49. In the standard form, a large number can be expressed as a decimal number between 0 and 1, multiplied by a power of 10.
50.  $4^2$  is greater than  $2^4$ .
51.  $x^m + x^m = x^{2m}$ , where  $x$  is a non-zero rational number and  $m$  is a positive integer.
52.  $x^m \times y^m = (x \times y)^{2m}$ , where  $x$  and  $y$  are non-zero rational numbers and  $m$  is a positive integer.
53.  $x^m \div y^m = (x \div y)^m$ , where  $x$  and  $y$  are non-zero rational numbers and  $m$  is a positive integer.
54.  $x^m \times x^n = x^{m+n}$ , where  $x$  is a non-zero rational number and  $m, n$  are positive integers.
55.  $4^9$  is greater than  $16^3$ .
56.  $\left(\frac{2}{5}\right)^3 \div \left(\frac{5}{2}\right)^3 = 1$
57.  $\left(\frac{4}{3}\right)^5 \times \left(\frac{5}{7}\right)^5 = \left(\frac{4}{3} + \frac{5}{7}\right)^5$
58.  $\left(\frac{5}{8}\right)^9 \div \left(\frac{5}{8}\right)^4 = \left(\frac{5}{8}\right)^4$
59.  $\left(\frac{7}{3}\right)^2 \times \left(\frac{7}{3}\right)^5 = \left(\frac{7}{3}\right)^{10}$
60.  $5^9 \times 25^0 \times 125^0 = (5^9)^6$
61.  $876543 = 8 \times 10^5 + 7 \times 10^4 + 6 \times 10^3 + 5 \times 10^2 + 4 \times 10^1 + 3 \times 10^0$
62.  $600060 = 6 \times 10^5 + 6 \times 10^2$
63.  $4 \times 10^5 + 3 \times 10^4 + 2 \times 10^3 + 1 \times 10^2 = 432010$
64.  $8 \times 10^6 + 2 \times 10^4 + 5 \times 10^2 + 9 \times 10^0 = 8020509$
65.  $4^0 + 5^0 + 6^0 = (4 + 5 + 6)^0$

ID : in-8-Profit-Loss-and-Discounts [1]

Class 8

Profit-Loss and Discounts

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#### Answer the questions

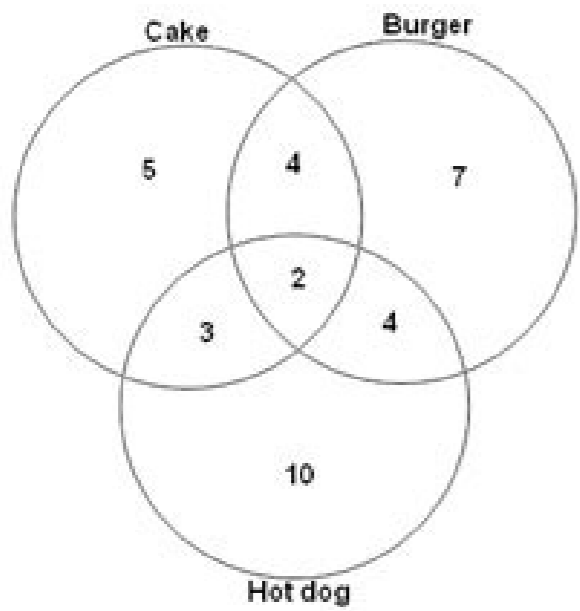
- (1) Balvinder purchased 450 bulbs for his shop at Rs.15 each. During transportation 90 bulbs got damaged, and he sold remaining bulbs at price of Rs.18 each. Find overall profit/loss in %.
- (2) Bala sells his two bikes at the rate of Rs. 2 lacs each. On one bike he gains 7% while on other bike he incurs a loss of 7%. Find his total loss/gain in whole transaction.
- (3) A shopkeeper buys 15rackets for Rs. 46500. If he sells them for a profit of 15%. Find the selling price of one racket.

#### Choose correct answer(s) from given choice

- (4) A shopkeeper mixes two variants of wheats in ratio 3:1. The first variety costs 24 per kg, while other costs 32 per kg. If the mixed wheat is sold at price of 20.8 per kg. Find the profit/loss incurred by shopkeeper.
- a. 20% loss                                      b. 15% profit  
c. 20% profit                                    d. 15% loss
- (5) Due to 20% discount offered by a shop, price of a DVD player reduces by Rs. 2200. Find the discounted price of DVD player.
- a. Rs. 10560                                      b. Rs. 7920  
c. Rs. 8800                                        d. Rs. 9680
- (6) If 480 glasses are bought at the rate of Rs.16 each, and 432 are sold at rate of 24 each. Find the overall profit/loss.
- a. 40% profit                                    b. 35% profit  
c. 25% profit                                    d. 45% profit
- (7) A shopkeeper sells two quality of coffee at rate of Rs. 48 per kg, and Rs. 49.5 per kg, gaining 20% and 10% profit respectively. If he mixes the two variants in the ratio 1:4 and sells the mixture at Rs. 57.2 per kg., what is his gain or loss?
- a. 35% loss                                        b. 30% profit  
c. 35% profit                                     d. 30% loss
- (8) A shopkeeper sold a phone at a loss of 7%. Had he sold it for Rs. 28 more, he would have gained 21%. Find the cost price of phone.
- a. Rs. 100                                         b. Rs. 200  
c. Rs. 150                                         d. Rs. 50

**Answer the Questions Based on Venn Diagram**

In a birthday party, cakes, burgers and hotdogs are served and it is represented by a Venn diagram below:



- How many had hot dogs?  
Answer: \_\_\_\_\_
- How many had only cakes?  
Answer: \_\_\_\_\_
- How many had both cakes and burgers?  
Answer: \_\_\_\_\_
- How many had hot dog and cake but not burger?  
Answer: \_\_\_\_\_
- How many had at least two items?  
Answer: \_\_\_\_\_

8.G.C.9  
G-GMD.A.3



## Volume of Pyramids, Cones, and Spheres



NOT TO SCALE

Find the volume of the pyramids, cones, and spheres.  
Round answers to 2 decimal places where necessary.

<p>1) </p> <p>Volume =</p>	<p>2) </p> <p>Volume =</p>	<p>3) </p> <p>Volume =</p>	<p>4) </p> <p>Volume =</p>
<p>5) </p> <p>Volume =</p>	<p>6) </p> <p>Volume =</p>	<p>7) </p> <p>Volume =</p>	<p>8) </p> <p>Volume =</p>
<p>9) </p> <p>Volume =</p>	<p>10) </p> <p>Volume =</p>	<p>11) </p> <p>Volume =</p>	<p>12) </p> <p>Volume =</p>
<p>13) </p> <p>Volume =</p>	<p>14) </p> <p>Volume =</p>	<p>15) </p> <p>Volume =</p>	<p>16) </p> <p>Volume =</p>

The constant of proportionality is the ratio between two variables  $y$  and  $x$ . Interpret the constant of proportionality as the slope of the linear relationship  $y = kx$ . Find the proportional relationship between  $x$  and  $y$  values to solve this set of pdf worksheets that comprise graphs, equations, and tables. Students will also learn to find the missing values in tables based on the constant of proportionality  $k$ , so derived. These printable worksheets are specially designed for students of grade 7 and grade 8. Click on the 'Free' icon to sample our worksheets. Constant of Proportionality - Graph 7th grade students should use the slope of each graph to identify the constant of proportionality,  $k$ . Then, find the proportional relationship between the  $x$  and  $y$  coordinates by applying the formula  $y = kx$ . Constant of Proportionality - Draw Graphs Based on the value  $k$ , draw a straight line on the graph that passes through the origin to denote the proportional relationship  $y = kx$ . Use our answer keys to validate your responses. Constant of Proportionality - Equations 8th grade students should rewrite each equation in the form of  $y = kx$ , where ' $k$ ' represents the constant of proportion. There are ten problems in each pdf worksheet. Constant of Proportionality - Tables Examine the  $x$  and  $y$  values provided in each table to find the constant of proportionality,  $k$ . Then, replace the value of  $k$  in  $y = kx$  to obtain the proportional relationship between  $x$  and  $y$ . Missing Values - Tables Each printable worksheet contains eight function tables. Using the values of  $x$  and  $y$ , determine the constant of proportionality  $k$ . Based on the constant derived, complete the table. 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If you're looking for division with remainders, you can make worksheets using the generator below or go to this page for some ready-made worksheets. Division worksheets generator Use the generator to make customized worksheets, including horizontally written problems, long division, and division with remainders. Multiplication of Integers Multiply the integers to find the product. A total of 48 problems are given in these integer worksheets for practice. Multiplication Squares | 2x2 Conceptualize the fundamentals of multiplying integers with this both of interesting 2x2 squares. Multiply the integers in the rows and columns and write the products in the squares. Multiplication Squares | 3x3 Get students to multiply the positive and negative numbers in each row and column and fill in the empty boxes in each 3x3 square. Multiplying 3 or 4 Integers Find the product of the integers. Apply the multiplication sign rule. Each worksheet consists of ten problems. 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