

Decimals and Percentages Part 5

Exercise Worksheet 4.5

1. Calculate the following:

i. $(2 - 3.5 \times 3.5) + 7.7$

ii. $8.5 - (9.8 + 4.7 / 5)$

iii. $7.1 + (2.3 / 9.2 - 4.5)$

iv. $6.6 (5.7 / 9.5 \times 8.9)$

v. $(2.6 + 9.6 - 6) \times 1.9$

vi. $5.4 - (4.9 - 2.2 \times 1.4)$

vii. $(5.9 - 1.4 \times 9.7) + 2.5$

viii. $5 - (8.5 + 3.1 / 5)$

ix. $2.2 + (1.9 / 1.9 - 4.3)$

x. $8.4 (2.2 / 7.9 \times 7.9)$

xi. $3 - (8.9 - 5.8 \times 6.6)$

xii. $(7.1 + 2.1 - 8) \times 6.9$

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2. Round the following numbers to the given degrees of accuracy:

- i. 26.1345 to the nearest tenth.
- ii. 3.01384 to the nearest 100^{th} .
- iii. 62.3184 to the nearest 1000^{th} .
- iv. 2911.106 to the nearest tenth.
- v. 248.83798 to the nearest 1000^{th} .
- vi. 83.476 to the nearest tenth.
- vii. 7.1492 to the nearest 100^{th} .
- viii. 35.12935 to the nearest 1000^{th} .
- ix. 9.03421 to the nearest tenth.
- x. 24.80898 to the nearest 1000^{th} .

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3. Solve the following real life problems:
- i. The cost of 17kg of rice is 1365.1 Rupees. Find the cost of a bag 1kg of rice.
 - ii. The cost of 25kg of pears is 2130 Rupees. Find the cost of 5kg of pears.
 - iii. Your CD player runs for about 19 hours on new batteries. The average length of CDs in your collection is about 1.7 hours. Calculate how many CDs you could expect to listen to using one new set of batteries. Give your answer to the nearest hundredth.
 - iv. The total length of a flag pole is 35.4 metres. Suppose that the length of the pole inside the ground is 0.4 metres. What is the length of the flag pole above the ground?
 - v. A man wins 20,000 Rupees in a competition. He gives 0.125 of the amount to each of his two children. He also gives 0.2 of the amount to his wife. How much does he give away altogether?