



## Year 5 Worksheet 1 - Place Value & Rounding

Question 1: Write the number in expanded form.

$$34.231 = 30 + 4 + 0.2 + 0.03 + 0.001$$

$$642.531 =$$

$$46.053 =$$

$$246.906 =$$

$$350.350 =$$

$$624.005 =$$

$$76.468 =$$

$$406.053 =$$

$$462.306 =$$

$$575.500 =$$



Question 2: Write the place value of the underlined digit.

$46.\underline{2}3 = \underline{\hspace{2cm}}$	$64.\underline{6}9 = \underline{\hspace{2cm}}$	$95.\underline{8}0 = \underline{\hspace{2cm}}$
$11\underline{6}.03 = \underline{\hspace{2cm}}$	$343.0\underline{4} = \underline{\hspace{2cm}}$	$\underline{2}5.54 = \underline{\hspace{2cm}}$
$3\underline{0}9.99 = \underline{\hspace{2cm}}$	$466.\underline{3}8 = \underline{\hspace{2cm}}$	$244.\underline{9}0 = \underline{\hspace{2cm}}$
$249.\underline{3}5 = \underline{\hspace{2cm}}$	$454.\underline{9}3 = \underline{\hspace{2cm}}$	$345.\underline{8}0 = \underline{\hspace{2cm}}$
$\underline{1}34.34 = \underline{\hspace{2cm}}$	$43.\underline{4}35 = \underline{\hspace{2cm}}$	$469.0\underline{4} = \underline{\hspace{2cm}}$
$348.\underline{7}9 = \underline{\hspace{2cm}}$	$234.\underline{9}4 = \underline{\hspace{2cm}}$	$24\underline{3}.94 = \underline{\hspace{2cm}}$
$324.\underline{3}3 = \underline{\hspace{2cm}}$	$245.\underline{0}8 = \underline{\hspace{2cm}}$	$\underline{9}2.04 = \underline{\hspace{2cm}}$



Question 3: Answer the following.

1	Sarah bought a new phone case online for \$12.95. She gave the delivery person \$20. How much change will she receive? Rounding to the nearest tenth.
2	A recipe calls for 0.75 liters of milk to make 15 pancakes. How much milk is needed to make 40 pancakes?
3	The weight of a box of chocolates is 0.85 kilograms. If a store receives 25 boxes, estimate the total weight in grams.
4	A rectangular swimming pool measures 10.8 meters in length and 5.4 meters in width. Estimate the pool's area in square meters.



5	A delivery truck travels 180.9 km on Monday and 215.6 km on Tuesday. Estimate the total distance traveled in two days.
6	A science experiment records the temperature as $28.47^{\circ}\text{C}$ , $29.53^{\circ}\text{C}$ , and $30.21^{\circ}\text{C}$ . Estimate the average temperature in degrees Celsius.
7	A water tank is filled with 75.6 liters of water. After using some water, there are 18.9 liters left. Estimate the amount of water used in liters.
8	A container holds 2.35 kilograms of flour. If each bag of flour weighs 0.75 kilograms, estimate the number of bags in the container.



9	A bookstore sells 128.95 books in a day. Estimate the total number of books sold in a month (30 days).
10	A company's revenue is \$862.76 on Monday and \$743.58 on Tuesday. Estimate the total revenue in two days.



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## Answer Key

Question 1: Write the number in expanded form.

$$34.231 = 30 + 4 + 0.2 + 0.03 + 0.001$$

$$642.531 = 600 + 40 + 2 + 0.5 + 0.03 + 0.001$$

$$46.053 = 40 + 6 + 0.05 + 0.003$$

$$246.906 = 200 + 40 + 6 + 0.9 + 0.006$$

$$350.350 = 300 + 50 + 0.3 + 0.05$$

$$624.005 = 600 + 20 + 4 + 0.005$$

$$76.468 = 70 + 6 + 0.4 + 0.06 + 0.008$$

$$406.053 = 400 + 6 + 0.05 + 0.003$$

$$462.306 = 400 + 60 + 2 + 0.3 + 0.006$$

$$575.500 = 500 + 70 + 5 + 0.5$$



Question 2: Write the place value of the underlined digit.

3 hundredths	6 tenths	8 tenths
6 tens	4 hundredths	<u>2</u> tens
0 ten	3 tenths	9 tenths
5 hundredths	3 hundredths	0 hundredths
1 hundred	4 tenths	4 hundredths
7 tenths	4 hundredths	3 ones
3 hundredths	0 tenth	<u>9</u> tens

Question 3:

1	$\$20.00$ (Amount given) - $\$12.95$ (Cost of phone case) = $\$7.05$ The final answer is $\$7.10$ .
2	Estimated milk needed $\approx 0.75$ liters / 15 pancakes $\times 40$ pancakes $\approx 2$ liters
3	Estimated total weight $\approx 0.85$ kg $\times 25$ boxes $\approx 21.25$ kg Rounded to the nearest hundredth, the estimated total weight is 21,250 grams.





4	Estimated area $\approx 10.8 \text{ meters} \times 5.4 \text{ meters} \approx 58.32 \text{ square meters}$ Rounded to the nearest tenth, the estimated area is 58.3 square meters.
5	Estimated total distance $\approx 180.9 \text{ km} + 215.6 \text{ km} \approx 396.5 \text{ km}$
6	Estimated average temperature $\approx (28.47^\circ\text{C} + 29.53^\circ\text{C} + 30.21^\circ\text{C}) / 3$ $\approx 29.40^\circ\text{C}$
7	Estimated water used $\approx 75.6 \text{ liters} - 18.9 \text{ liters} \approx 56.7 \text{ liters}$
8	Estimated number of bags $\approx 2.35 \text{ kg} / 0.75 \text{ kg} \approx 3.1333 \text{ bags}$ Rounded to the nearest tenth, the estimated number of bags is 3.1 bags.
9	Estimated total books sold $\approx 128.95 \text{ books/day} \times 30 \text{ days} \approx 3868.5 \text{ books}$ Rounded to the nearest whole number, the estimated total books sold is 3869 books.
10	Estimated total revenue $\approx \$862.76 + \$743.58 \approx \$1606.34$ Rounded to the nearest cent, the estimated total revenue is \$1606.35.