

Grade 5 Mathematics

Decimals

Complete Worksheet Pack

Place value • Comparing • Rounding • Operations • Fractions & decimals • Reasoning

Worksheet 1 – Decimal Place Value

Grade 5 Mathematics

A. Understand the Value

1. In 47.583, what is the value of the digit 5?

2. In 6.204, what is the value of the digit 2?

3. Write 8.307 in expanded form.

4. Write $40 + 7/10 + 3/100 + 9/1000$ as a decimal.

5. What digit is in the thousandths place in 92.418?

6. Write 5.6 as a decimal with three decimal places.

B. Reasoning

1. Which is greater: 4.7 or 4.70? Explain.

2. Write a decimal between 3.45 and 3.46.

3. Write 7.205 in words.

Worksheet 2 – Comparing, Ordering & Rounding Decimals

Grade 5 Mathematics

A. Compare

1. Compare: 6.45 ____ 6.405

2. Compare: 8.70 ____ 8.7

3. Compare: 3.098 ____ 3.89

4. Compare: 12.305 ____ 12.350

5. Compare: 0.75 ____ 0.705

B. Order & Round

1. Order from smallest to largest: 2.5, 2.05, 2.505, 2.55.

2. Round 47.386 to the nearest tenth.

3. Round 8.764 to the nearest hundredth.

4. Round 125.498 to the nearest whole number.

Worksheet 3 – Adding & Subtracting Decimals

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A. Calculate

1. $34.75 + 8.6 =$

2. $125.408 + 36.75 =$

3. $90.5 - 27.86 =$

4. $200 - 48.735 =$

5. $6.08 + 14.725 + 3.9 =$

6. $75.004 - 18.79 =$

B. Missing Numbers

1. $24.5 + \underline{\hspace{2cm}} = 50$

2. $\underline{\hspace{2cm}} - 12.75 = 30$

3. $8.4 + \underline{\hspace{2cm}} = 15.25$

4. $100 - \underline{\hspace{2cm}} = 63.875$

Worksheet 4 – Decimals $\times$ and $\div$ 10, 100 & 1,000

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A. Multiply

1. $4.56 \times 10 =$

2. $4.56 \times 100 =$

3. $4.56 \times 1,000 =$

4. $0.73 \times 100 =$

5. $12.05 \times 10 =$

B. Divide & Reason

1. $725.6 \div 10 =$

2. $725.6 \div 100 =$

3. $725.6 \div 1,000 =$

4. Which is greater: 5.2×100 or $520 \div 10$?

5. Explain why multiplying by 100 moves each digit two places to the left in the place-value chart.

Worksheet 5 – Fractions, Decimals & Real Life

Grade 5 Mathematics

A. Convert

1. Write $\frac{3}{10}$ as a decimal.

2. Write $\frac{7}{100}$ as a decimal.

3. Write $\frac{45}{100}$ as a decimal.

4. Write 0.6 as a fraction in simplest form.

5. Write 0.25 as a fraction in simplest form.

B. Real-Life Problems

1. A notebook costs \$2.75 and a pen costs \$1.85. How much do they cost altogether?

2. A ribbon is 5.6 m long. If 2.75 m is used, how much ribbon remains?

3. A runner completes 3.75 km in the morning and 4.625 km in the evening. What distance does the runner cover altogether?

4. A bottle holds 1.5 litres. How much water is in 8 identical bottles?

Worksheet 6 – Decimal Reasoning Challenge

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A. Think Carefully

1. A number is between 5.6 and 5.7. Its hundredths digit is 4. Give two possible numbers.

2. Find a decimal that rounds to 8.5 to the nearest tenth but is less than 8.5.

3. Which is closer to 10: 9.86 or 10.14? Explain.

4. A student says $3.7 + 2.45 = 5.115$. Explain the mistake and give the correct answer.

5. Use 2, 5 and 7 exactly once to make the greatest possible decimal less than 8.

B. True or False? Explain

1. $0.8 = 0.80$

2. 4.09 is greater than 4.9

3. $2.5 \times 100 = 250$

4. $6.37 - 1.8 = 4.57$

Answer Key – Worksheet 1

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1. 0.5 (five tenths).
2. 0.2 (two tenths).
3. $8 + 0.3 + 0.007$.
4. 40.739.
5. 8.
6. 5.600.
7. They are equal.
8. Examples: 3.451, 3.455, 3.459.
9. Seven and two hundred five thousandths.

Answer Key – Worksheet 2

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1. $6.45 > 6.405$.

2. Equal.

3. $3.098 < 3.89$.

4. $12.305 < 12.350$.

5. $0.75 > 0.705$.

6. 2.05, 2.5, 2.505, 2.55.

7. 47.4.

8. 8.76.

9. 125.

Answer Key – Worksheet 3

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1. 43.35.
2. 162.158.
3. 62.64.
4. 151.265.
5. 24.705.
6. 56.214.
7. 25.5.
8. 42.75.
9. 6.85.
10. 36.125.

Answer Key – Worksheet 4

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1. 45.6.

2. 456.

3. 4,560.

4. 73.

5. 120.5.

6. 72.56.

7. 7.256.

8. 0.7256.

9. 520 is greater because $5.2 \times 100 = 520$ while $520 \div 10 = 52$.

10. Multiplying by 100 increases each place value by two places, so the digits shift two places left on a place-value chart.

Answer Key – Worksheet 5

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1. 0.3.

2. 0.07.

3. 0.45.

4. $\frac{3}{5}$.

5. $\frac{1}{4}$.

6. \$4.60.

7. 2.85 m.

8. 8.375 km.

9. 12 litres.

Answer Key – Worksheet 6

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1. Examples: 5.64 and 5.65.
2. Examples: 8.46, 8.47 or 8.49.
3. 9.86 is closer to 10.
4. The decimal places must be aligned; $3.70 + 2.45 = 6.15$.
5. 7.52.
6. True.
7. False. 4.09 is less than 4.9.
8. True.
9. True.