

GRADE 6 DECIMALS

Complete Worksheet Pack

What this pack covers

Decimal place value • Comparing & ordering • Rounding • Addition & subtraction •
Multiplication & division • Real-life applications • Reasoning & error analysis

6 practice worksheets + 6 separate answer-key pages

Worksheet 1: Decimal Place Value & Number Sense

Show your working. Line up decimal places carefully and simplify your final answer where appropriate.

1. What is the value of the digit **7** in 48.372?
2. Write 6.405 in expanded form.
3. Write 0.708 in words.
4. Write **5 tenths + 3 hundredths + 9 thousandths** as a decimal.
5. Complete: $4.56 = 4 + \underline{\hspace{1cm}}$ tenths + $\underline{\hspace{1cm}}$ hundredths.
6. Which is greater: 7.09 or 7.9? Explain.
7. Write 3.407 in fraction form using thousandths.
8. Round 18.7645 to the nearest hundredth.

Answer Key 1

Worksheet 1: Decimal Place Value & Number Sense — Answers

1. 7 hundredths (0.07)
2. $6 + 0.4 + 0.005$
3. Seven hundred eight thousandths
4. 0.539
5. 5 tenths; 6 hundredths
6. 7.9; $7.90 > 7.09$
7. $3407/1000$
8. 18.76

Teacher note: Accept equivalent representations where mathematically correct.

Worksheet 2: Comparing, Ordering & Rounding Decimals

Show your working. Line up decimal places carefully and simplify your final answer where appropriate.

1. Compare: **4.708** ____ **4.78**.
2. Compare: **9.305** ____ **9.35**.
3. Order from least to greatest: 3.09, 3.9, 3.099, 3.19.
4. Order from greatest to least: 0.75, 0.705, 0.755, 0.57.
5. Round 27.486 to the nearest tenth.
6. Round 6.995 to the nearest hundredth.
7. Give one decimal number between 5.4 and 5.5.
8. A measurement is recorded as 12.48 cm. Another is 12.5 cm. Which is longer and by how much?

Answer Key 2

Worksheet 2: Comparing, Ordering & Rounding Decimals — Answers

1. $4.708 < 4.78$
2. $9.305 < 9.35$
3. 3.09, 3.099, 3.19, 3.9
4. 0.755, 0.75, 0.705, 0.57
5. 27.5
6. 7.00
7. Example: 5.45
8. 12.5 cm by 0.02 cm

Teacher note: Accept equivalent representations where mathematically correct.

Worksheet 3: Adding & Subtracting Decimals

Show your working. Line up decimal places carefully and simplify your final answer where appropriate.

1. Calculate: $18.75 + 6.408$.
2. Calculate: $43.2 - 17.856$.
3. Calculate: $7.095 + 12.86 + 0.7$.
4. Calculate: $50 - 23.675$.
5. Find x : $x + 4.75 = 12.308$.
6. Find x : $25.6 - x = 8.945$.
7. A student has \$25.00 and spends \$7.85 and \$4.60. How much remains?
8. A ribbon is 15.75 m long. 6.825 m is used. How much remains?

Answer Key 3

Worksheet 3: Adding & Subtracting Decimals — Answers

1. 25.158
2. 25.344
3. 20.655
4. 26.325
5. 7.558
6. 16.655
7. \$12.55
8. 8.925 m

Teacher note: Accept equivalent representations where mathematically correct.

Worksheet 4: Multiplying & Dividing Decimals

Show your working. Line up decimal places carefully and simplify your final answer where appropriate.

1. Calculate: 4.8×3.5 .
2. Calculate: 7.25×0.6 .
3. Calculate: 0.84×2.5 .
4. Calculate: $36.4 \div 4$.
5. Calculate: $8.64 \div 0.8$.
6. Calculate: $12.6 \div 0.3$.
7. Find x: $x \times 0.4 = 6.8$.
8. Find x: $x \div 0.5 = 14.2$.

Answer Key 4

Worksheet 4: Multiplying & Dividing Decimals — Answers

1. 16.8
2. 4.35
3. 2.1
4. 9.1
5. 10.8
6. 42
7. 17
8. 7.1

Teacher note: Accept equivalent representations where mathematically correct.

Worksheet 5: Decimals in Real Life

Show your working. Line up decimal places carefully and simplify your final answer where appropriate.

1. A shop sells 2.5 kg of rice at \$3.60 per kg. What is the total cost?
2. A runner completes 4.75 km in the morning and 3.68 km in the evening. What is the total distance?
3. A tank contains 18.5 L. Then 6.75 L is used. How much remains?
4. A 12.5 m rope is cut into 5 equal pieces. How long is each piece?
5. A notebook costs \$2.75. How much do 8 notebooks cost?
6. A car travels 15.6 km using 1.2 L of fuel. How many km per litre is that?
7. A recipe needs 1.25 kg flour. You have 0.875 kg. How much more is needed?
8. A 10 m board is cut into pieces of 0.8 m. How many complete pieces can be made?

Answer Key 5

Worksheet 5: Decimals in Real Life — Answers

1. \$9.00
2. 8.43 km
3. 11.75 L
4. 2.5 m
5. \$22.00
6. 13 km/L
7. 0.375 kg
8. 12 complete pieces

Teacher note: Accept equivalent representations where mathematically correct.

Worksheet 6: Decimal Reasoning Challenge

Show your working. Line up decimal places carefully and simplify your final answer where appropriate.

1. Find the missing number: $3.75 + \underline{\quad} = 10.2$.
2. A number is between 6.4 and 6.5, has 8 in the hundredths place, and is divisible by 0.01. Give one possible number.
3. Which is greater: 0.48×10 or $4.8 \div 10$? By how much?
4. A student says $2.7 \times 0.4 = 10.8$. Explain the error and give the correct answer.
5. Find a decimal that rounds to 7.3 to the nearest tenth but is less than 7.3.
6. A 5.6 L container is filled equally into 8 bottles. How much goes into each bottle?
7. The difference between two decimals is 2.75. One number is 9.4. Give the other number if it is smaller.
8. A shop gives a \$2.50 discount on an item costing \$18.75. Then 5% of the discounted price is added as a fee. What is the final price?

Answer Key 6

Worksheet 6: Decimal Reasoning Challenge — Answers

1. 6.45
2. Example: 6.48
3. $0.48 \times 10 = 4.8$; $4.8 \div 10 = 0.48$; difference 4.32
4. Decimal-place error; $2.7 \times 0.4 = 1.08$
5. Example: 7.26
6. 0.7 L
7. 6.65
8. Discounted price \$16.25; fee \$0.8125; final \$17.0625 (or \$17.06 to nearest cent).

Teacher note: Accept equivalent representations where mathematically correct.