

Grade 5 Mathematics

Multiplication

Complete Worksheet Pack

Mental strategies • Large numbers • Reasoning • Estimation • Word Problems

Worksheet 1 – Smart Multiplication Strategies

Grade 5 Mathematics

A. Calculate Efficiently

1. $25 \times 16 =$ _____

2. $48 \times 25 =$ _____

3. $125 \times 8 =$ _____

4. $240 \times 35 =$ _____

5. $3,500 \times 24 =$ _____

6. $4,800 \times 125 =$ _____

B. Use a Strategy

1. Explain how you could calculate 36×25 mentally.

2. Find 48×50 without using long multiplication.

3. Use $7 \times 6 = 42$ to find 70×60 .

4. Find $3,200 \times 15$ using a strategy that makes the calculation easier.

Worksheet 2 – Large Numbers & Missing Factors

Grade 5 Mathematics

A. Find the Product

1. $325 \times 14 =$ _____

2. $1,204 \times 6 =$ _____

3. $2,350 \times 20 =$ _____

4. $4,125 \times 12 =$ _____

5. $305 \times 48 =$ _____

6. $2,015 \times 25 =$ _____

B. Missing Numbers

1. _____ $\times 25 = 2,500$

2. $48 \times$ _____ $= 4,800$

3. $125 \times$ _____ $= 10,000$

4. _____ $\times 40 = 12,000$

Worksheet 3 – Estimation & Error Analysis

Grade 5 Mathematics

A. Estimate

1. Estimate 398×21 by rounding each number to a convenient value.

2. Estimate $2,487 \times 19$.

3. Estimate $6,205 \times 48$.

4. Which is closer to 500,000: 798×625 or 900×600 ? Explain.

B. Error Detective

1. A student says $48 \times 25 = 1,000$. Is the answer correct? Explain.

2. A student calculates $305 \times 20 = 6,010$. Find the mistake and give the correct answer.

3. A student estimates 498×21 as about 5,000. Is this reasonable? Explain.

Worksheet 4 – Real-Life Multiplication

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A. Solve the Problems

1. A school buys 24 packs of notebooks. Each pack contains 125 notebooks. How many notebooks are there altogether?

2. A cinema has 36 rows with 28 seats in each row. How many seats are there?

3. A factory packs 2,500 items each day. How many items does it pack in 18 days?

4. A shop sells 125 pencils each week. How many pencils will it sell in 16 weeks?

5. A family drives 275 km each day for 12 days. What total distance do they travel?

B. Multi-Step Challenge

1. A charity prepares 24 boxes. Each box contains 35 food packets. Each packet costs ■48. What is the total cost of all the packets?

Worksheet 5 – Multiplication Challenge

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A. Think & Reason

1. If $125 \times 8 = 1,000$, what is 125×80 ? What is $1,250 \times 8$?

2. Without calculating from scratch, find 48×99 .

3. A number multiplied by 25 gives 3,000. What is the number?

4. Find two different multiplication equations with a product of 6,000.

5. Which is greater: 48×125 or 60×100 ? Show your reasoning.

B. True or False? Explain

1. $250 \times 40 = 10,000$

2. 99×50 is greater than 100×50

3. $125 \times 16 = 2,000$

Answer Key – Worksheet 1

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1. 400

2. 1,200

3. 1,000

4. 8,400

5. 84,000

6. 600,000

7. Example: $36 \times 25 = 36 \times 100 \div 4 = 900$.

8. 2,400.

9. 4,200.

10. 48,000.

Answer Key – Worksheet 2

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1. 4,550
2. 7,224
3. 47,000
4. 49,500
5. 14,640
6. 50,375
7. 100.
8. 100.
9. 80.
10. 300.

Answer Key – Worksheet 3

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1. About 8,000 (400×20).
2. About 50,000 ($2,500 \times 20$).
3. About 300,000 ($6,000 \times 50$).
4. $798 \times 625 = 498,750$, so it is closer to 500,000.
5. Incorrect. $48 \times 25 = 1,200$.
6. Incorrect. $305 \times 20 = 6,100$.
7. No. 498×21 is about 10,500, so 5,000 is too low.

Answer Key – Worksheet 4

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1. 3,000 notebooks.
2. 1,008 seats.
3. 45,000 items.
4. 2,000 pencils.
5. 3,300 km.
6. $24 \times 35 = 840$ packets; $840 \times \blacksquare 48 = \blacksquare 40,320$.

Answer Key – Worksheet 5

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1. 10,000; 10,000.
2. 4,752 ($48 \times 100 - 48$).
3. 120.
4. Answers vary; e.g. $75 \times 80 = 6,000$ and $120 \times 50 = 6,000$.
5. $48 \times 125 = 6,000$, so it is equal to 60×100 .
6. True.
7. False; $99 \times 50 = 4,950$, while $100 \times 50 = 5,000$.
8. True.