Name: _____ Date: _____

Multiplying and Dividing by Powers of 10

Grade 5 | Multiplying and dividing by powers of 10, including exponents | Version 1 of 10

Powers of 10: $10^1 = 10$, $10^2 = 100$, $10^3 = 1{,}000$. Multiplying by 10 moves each digit one place to the left; dividing by 10 moves each digit one place to the right.

Part A: Multiply by a power of 10. The exponent tells how many zeros to write.

1. $76 \times 10^3 =$ _____
2. $39 \times 10^3 =$ _____
3. $94 \times 10^2 =$ _____
4. $98 \times 10^3 =$ _____
5. $97 \times 10^2 =$ _____
6. $45 \times 10^2 =$ _____

Part B: Multiply. Move the decimal point one place to the right for each power of 10.

7. $72.6 \times 10 =$ _____
8. $28.56 \times 1{,}000 =$ _____
9. $99.82 \times 1{,}000 =$ _____
10. $78.15 \times 10^2 =$ _____
11. $25.14 \times 10^1 =$ _____
12. $44.27 \times 10^3 =$ _____

Part C: Divide. Move the decimal point one place to the left for each power of 10.

13. $9{,}742 \div 10^1 =$ _____
14. $93.4 \div 10^1 =$ _____
15. $6{,}813 \div 100 =$ _____
16. $8{,}698 \div 100 =$ _____
17. $36.4 \div 10^1 =$ _____
18. $174 \div 10 =$ _____

Name: _____ Date: _____

Multiplying and Dividing by Powers of 10

Grade 5 | Multiplying and dividing by powers of 10, including exponents | Version 2 of 10

Powers of 10: $10^1 = 10$, $10^2 = 100$, $10^3 = 1{,}000$. Multiplying by 10 moves each digit one place to the left; dividing by 10 moves each digit one place to the right.

Part A: Multiply by a power of 10. The exponent tells how many zeros to write.

1. $20 \times 10^1 =$ _____
2. $41 \times 10^3 =$ _____
3. $29 \times 10^3 =$ _____
4. $13 \times 10^3 =$ _____
5. $16 \times 10^1 =$ _____
6. $86 \times 10^3 =$ _____

Part B: Multiply. Move the decimal point one place to the right for each power of 10.

7. $55.8 \times 10^2 =$ _____
8. $20.9 \times 100 =$ _____
9. $55.19 \times 10^1 =$ _____
10. $43.56 \times 10^3 =$ _____
11. $46.6 \times 1{,}000 =$ _____
12. $45.45 \times 10^1 =$ _____

Part C: Divide. Move the decimal point one place to the left for each power of 10.

13. $81.3 \div 10^2 =$ _____
14. $1{,}849 \div 100 =$ _____
15. $46.3 \div 10^3 =$ _____
16. $36.4 \div 100 =$ _____
17. $60.1 \div 10 =$ _____
18. $313 \div 10^1 =$ _____

Name: _____ Date: _____

Multiplying and Dividing by Powers of 10

Grade 5 | Multiplying and dividing by powers of 10, including exponents | Version 3 of 10

Powers of 10: $10^1 = 10$, $10^2 = 100$, $10^3 = 1{,}000$. Multiplying by 10 moves each digit one place to the left; dividing by 10 moves each digit one place to the right.

Part A: Multiply by a power of 10. The exponent tells how many zeros to write.

1. $11 \times 10^3 =$ _____
2. $70 \times 10^2 =$ _____
3. $37 \times 10^2 =$ _____
4. $39 \times 10^1 =$ _____
5. $80 \times 10^1 =$ _____
6. $3 \times 10^1 =$ _____

Part B: Multiply. Move the decimal point one place to the right for each power of 10.

7. $13.65 \times 10 =$ _____
8. $44.3 \times 1{,}000 =$ _____
9. $99.2 \times 10^3 =$ _____
10. $75.6 \times 1{,}000 =$ _____
11. $26.78 \times 10^1 =$ _____
12. $18.73 \times 1{,}000 =$ _____

Part C: Divide. Move the decimal point one place to the left for each power of 10.

13. $38.2 \div 1{,}000 =$ _____
14. $87.2 \div 100 =$ _____
15. $84.2 \div 10^1 =$ _____
16. $91.7 \div 10^3 =$ _____
17. $3{,}751 \div 10 =$ _____
18. $9{,}564 \div 1{,}000 =$ _____

Name: _____ Date: _____

Multiplying and Dividing by Powers of 10

Grade 5 | Multiplying and dividing by powers of 10, including exponents | Version 4 of 10

Powers of 10: $10^1 = 10$, $10^2 = 100$, $10^3 = 1{,}000$. Multiplying by 10 moves each digit one place to the left; dividing by 10 moves each digit one place to the right.

Part A: Multiply by a power of 10. The exponent tells how many zeros to write.

1. $93 \times 10^1 =$ _____
2. $79 \times 10^3 =$ _____
3. $8 \times 10^3 =$ _____
4. $40 \times 10^2 =$ _____
5. $92 \times 10^2 =$ _____
6. $13 \times 10^1 =$ _____

Part B: Multiply. Move the decimal point one place to the right for each power of 10.

7. $59.71 \times 10 =$ _____
8. $26.05 \times 1{,}000 =$ _____
9. $17.62 \times 10^3 =$ _____
10. $17.69 \times 10^3 =$ _____
11. $58.9 \times 10^1 =$ _____
12. $29.7 \times 1{,}000 =$ _____

Part C: Divide. Move the decimal point one place to the left for each power of 10.

13. $9{,}061 \div 10^3 =$ _____
14. $57.9 \div 100 =$ _____
15. $8.1 \div 10^3 =$ _____
16. $34.1 \div 10^2 =$ _____
17. $4{,}626 \div 10^1 =$ _____
18. $15.9 \div 100 =$ _____

Name: _____ Date: _____

Multiplying and Dividing by Powers of 10

Grade 5 | Multiplying and dividing by powers of 10, including exponents | Version 5 of 10

Powers of 10: $10^1 = 10$, $10^2 = 100$, $10^3 = 1{,}000$. Multiplying by 10 moves each digit one place to the left; dividing by 10 moves each digit one place to the right.

Part A: Multiply by a power of 10. The exponent tells how many zeros to write.

1. $17 \times 10^3 =$ _____
2. $52 \times 10^1 =$ _____
3. $78 \times 10^1 =$ _____
4. $44 \times 10^2 =$ _____
5. $8 \times 10^1 =$ _____
6. $81 \times 10^2 =$ _____

Part B: Multiply. Move the decimal point one place to the right for each power of 10.

7. $8.9 \times 100 =$ _____
8. $94.1 \times 10^3 =$ _____
9. $58.46 \times 10^2 =$ _____
10. $16.87 \times 10 =$ _____
11. $94.6 \times 10^2 =$ _____
12. $26.4 \times 100 =$ _____

Part C: Divide. Move the decimal point one place to the left for each power of 10.

13. $2.4 \div 10^3 =$ _____
14. $803 \div 1{,}000 =$ _____
15. $37.8 \div 10 =$ _____
16. $94.4 \div 10^2 =$ _____
17. $8.2 \div 1{,}000 =$ _____
18. $977 \div 10^1 =$ _____

Name: _____ Date: _____

Multiplying and Dividing by Powers of 10

Grade 5 | Multiplying and dividing by powers of 10, including exponents | Version 6 of 10

Powers of 10: $10^1 = 10$, $10^2 = 100$, $10^3 = 1{,}000$. Multiplying by 10 moves each digit one place to the left; dividing by 10 moves each digit one place to the right.

Part A: Multiply by a power of 10. The exponent tells how many zeros to write.

1. $42 \times 10^1 =$ _____
2. $65 \times 10^3 =$ _____
3. $77 \times 10^3 =$ _____
4. $71 \times 10^3 =$ _____
5. $25 \times 10^1 =$ _____
6. $72 \times 10^2 =$ _____

Part B: Multiply. Move the decimal point one place to the right for each power of 10.

7. $74.16 \times 1{,}000 =$ _____
8. $29.56 \times 10 =$ _____
9. $58.16 \times 100 =$ _____
10. $81.48 \times 10^2 =$ _____
11. $41.5 \times 1{,}000 =$ _____
12. $96.91 \times 10^3 =$ _____

Part C: Divide. Move the decimal point one place to the left for each power of 10.

13. $7{,}932 \div 10^1 =$ _____
14. $6{,}607 \div 100 =$ _____
15. $9.9 \div 10^3 =$ _____
16. $2{,}226 \div 10^2 =$ _____
17. $9{,}955 \div 10^1 =$ _____
18. $2{,}205 \div 10^3 =$ _____

Name: _____ Date: _____

Multiplying and Dividing by Powers of 10

Grade 5 | Multiplying and dividing by powers of 10, including exponents | Version 7 of 10

Powers of 10: $10^1 = 10$, $10^2 = 100$, $10^3 = 1{,}000$. Multiplying by 10 moves each digit one place to the left; dividing by 10 moves each digit one place to the right.

Part A: Multiply by a power of 10. The exponent tells how many zeros to write.

1. $52 \times 10^3 =$ _____
2. $94 \times 10^3 =$ _____
3. $36 \times 10^2 =$ _____
4. $20 \times 10^2 =$ _____
5. $43 \times 10^1 =$ _____
6. $14 \times 10^3 =$ _____

Part B: Multiply. Move the decimal point one place to the right for each power of 10.

7. $14.31 \times 10^2 =$ _____
8. $94.1 \times 10^2 =$ _____
9. $59.4 \times 10^2 =$ _____
10. $66.5 \times 10^1 =$ _____
11. $74.92 \times 10 =$ _____
12. $25.2 \times 100 =$ _____

Part C: Divide. Move the decimal point one place to the left for each power of 10.

13. $7{,}203 \div 10^2 =$ _____
14. $47.1 \div 10^1 =$ _____
15. $31.7 \div 10^2 =$ _____
16. $8{,}851 \div 10 =$ _____
17. $3.9 \div 10^3 =$ _____
18. $9{,}226 \div 10^3 =$ _____

Name: _____ Date: _____

Multiplying and Dividing by Powers of 10

Grade 5 | Multiplying and dividing by powers of 10, including exponents | Version 8 of 10

Powers of 10: $10^1 = 10$, $10^2 = 100$, $10^3 = 1{,}000$. Multiplying by 10 moves each digit one place to the left; dividing by 10 moves each digit one place to the right.

Part A: Multiply by a power of 10. The exponent tells how many zeros to write.

1. $47 \times 10^2 =$ _____
2. $15 \times 10^2 =$ _____
3. $47 \times 10^1 =$ _____
4. $35 \times 10^2 =$ _____
5. $31 \times 10^3 =$ _____
6. $70 \times 10^1 =$ _____

Part B: Multiply. Move the decimal point one place to the right for each power of 10.

7. $51.83 \times 1{,}000 =$ _____
8. $63.3 \times 10^1 =$ _____
9. $50.5 \times 100 =$ _____
10. $85.54 \times 100 =$ _____
11. $25.7 \times 10^3 =$ _____
12. $71.9 \times 1{,}000 =$ _____

Part C: Divide. Move the decimal point one place to the left for each power of 10.

13. $84.8 \div 10^3 =$ _____
14. $6{,}112 \div 10^1 =$ _____
15. $80.8 \div 10^3 =$ _____
16. $49.7 \div 10^2 =$ _____
17. $9{,}721 \div 10^2 =$ _____
18. $75.4 \div 10 =$ _____

Name: _____ Date: _____

Multiplying and Dividing by Powers of 10

Grade 5 | Multiplying and dividing by powers of 10, including exponents | Version 9 of 10

Powers of 10: $10^1 = 10$, $10^2 = 100$, $10^3 = 1{,}000$. Multiplying by 10 moves each digit one place to the left; dividing by 10 moves each digit one place to the right.

Part A: Multiply by a power of 10. The exponent tells how many zeros to write.

1. $60 \times 10^3 =$ _____
2. $89 \times 10^1 =$ _____
3. $93 \times 10^3 =$ _____
4. $83 \times 10^2 =$ _____
5. $90 \times 10^1 =$ _____
6. $76 \times 10^2 =$ _____

Part B: Multiply. Move the decimal point one place to the right for each power of 10.

7. $43.3 \times 1{,}000 =$ _____
8. $82.7 \times 10 =$ _____
9. $15.9 \times 10^3 =$ _____
10. $80.23 \times 10^3 =$ _____
11. $28.26 \times 10^2 =$ _____
12. $22.83 \times 10^1 =$ _____

Part C: Divide. Move the decimal point one place to the left for each power of 10.

13. $34.9 \div 10^1 =$ _____
14. $4{,}343 \div 100 =$ _____
15. $27.6 \div 100 =$ _____
16. $86.7 \div 10^2 =$ _____
17. $13.1 \div 100 =$ _____
18. $8{,}241 \div 1{,}000 =$ _____

Name: _____ Date: _____

Multiplying and Dividing by Powers of 10

Grade 5 | Multiplying and dividing by powers of 10, including exponents | Version 10 of 10

Powers of 10: $10^1 = 10$, $10^2 = 100$, $10^3 = 1{,}000$. Multiplying by 10 moves each digit one place to the left; dividing by 10 moves each digit one place to the right.

Part A: Multiply by a power of 10. The exponent tells how many zeros to write.

1. $89 \times 10^3 =$ _____
2. $60 \times 10^2 =$ _____
3. $7 \times 10^3 =$ _____
4. $81 \times 10^1 =$ _____
5. $14 \times 10^2 =$ _____
6. $58 \times 10^3 =$ _____

Part B: Multiply. Move the decimal point one place to the right for each power of 10.

7. $13.53 \times 10^1 =$ _____
8. $61.03 \times 10^3 =$ _____
9. $82.9 \times 10^3 =$ _____
10. $64.64 \times 1{,}000 =$ _____
11. $97.39 \times 10^3 =$ _____
12. $44.5 \times 1{,}000 =$ _____

Part C: Divide. Move the decimal point one place to the left for each power of 10.

13. $28.8 \div 1{,}000 =$ _____
14. $4{,}597 \div 10 =$ _____
15. $7{,}413 \div 100 =$ _____
16. $40.7 \div 10^3 =$ _____
17. $7{,}694 \div 10^2 =$ _____
18. $20.5 \div 10^3 =$ _____