Multiplying and Dividing Powers of Ten

Unit 4, Station 1, Round 2, Task 3

Solve each problem.

1) 4×10^{1}

2) 22×10^{3}

3) 35×10^{3}

4) 85×10^{1}

5) 869×10^{1}

6) 479×10^{4}

7) 3×10^{2}

8) 9×10^{2}

9) 41×10^{2}

10) 157×10^{3}

11) 37×10^{1}

12) 2×10^{1}

13) 28×10^{4}

14) 453×10^{1}

15) 98×10^{2}

16) 3×10^{1}

17) 718×10^{1}

18) 74×10^{4}

19) 5×10^{1}

20) 9×10^{1}

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

Multiplying and Dividing Powers of Ten

Solve each problem.

5.47×10^4
This is the same as saying:
$5.47 \times (10 \times 10 \times 10 \times 10)$
And because the base is 10 you can just move the decimal 4 places to the right to solve.
5 4 7 0 0.
$5.47 \times 10^4 = 54{,}700$

$2.36 \div 10^2$
Division is the same way. Only instead of moving the decimal right, you move it left.
.0 2 3 6
You can also multiply a negative exponent, which means the same thing.
$2.36 \times 10^{-2} = 2.36 \div 10^2$

1) 47.575×10^1

2) 85.3×10^3

3) 2.4×10^1

4) 479.724×10^3

5) 8.5×10^1

6) 3.96×10^4

7) 16.4×10^3

8) 89.2×10^2

9) 22.182×10^4

10) 55.26×10^3

11) 4.31×10^1

12) 499.22×10^4

13) 39.136×10^4

14) 4.79×10^3

15) 285.2×10^1

16) 765.83×10^1

17) 5.319×10^1

18) 168.869×10^2

19) 1.3×10^3

20) 387.1×10^3

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____