Multiplying and Dividing Powers of Ten

Unit 4, Station 1, Round 3, Task 3

Solve each problem.

1) 2×10^{4}

2) 52×10^{1}

3) 4×10^{1}

4) 7×10^{3}

5) 9×10^{4}

6) 94×10^{2}

7) 58×10^{1}

8) 8×10^{4}

9) 59×10^{3}

10) 659×10^{1}

11) 319×10^{3}

12) 7×10^{2}

13) 34×10^{2}

14) 13×10^{2}

15) 4×10^{1}

16) 81×10^{3}

17) 699×10^{2}

18) 9×10^{1}

19) 518×10^{3}

20) 218×10^{3}

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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) 2.918×10^1

2) 398.9×10^1

3) 426.688×10^2

4) 2.611×10^3

5) 6.189×10^4

6) 8.2×10^3

7) 63.8×10^4

8) 36.41×10^1

9) 22.354×10^1

10) 31.1×10^3

11) 62.25×10^4

12) 545.46×10^4

13) 119.9×10^2

14) 782.991×10^4

15) 379.3×10^1

16) 75.878×10^4

17) 8.412×10^4

18) 45.9×10^4

19) 5.1×10^1

20) 419.16×10^3

Answers

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2. _____
3. _____
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