Multiplying and Dividing Powers of Ten

Name:

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.

$5.47 \times 10^4 = 54{,}700$

5 4 7 0 0.

$2.36 \div 10^2$

Division is the same way. Only instead of moving the decimal right, you move it left.

You can also multiply a negative exponent, which means the same thing.
$2.36 \times 10^{-2} = 2.36 \div 10^2$

.0 2 3 6

1) $8.416 \div 10^3$

2) 45.7×10^2

3) $4.38 \div 10^3$

4) 19.32×10^1

5) $4.7 \div 10^2$

6) 42.88×10^3

7) $7.3 \div 10^3$

8) 4.67×10^1

9) $1.5 \div 10^3$

10) 43.449×10^3

11) $726.191 \div 10^2$

12) 37.7×10^2

13) $6.399 \div 10^3$

14) 146.4×10^1

15) $75.54 \div 10^2$

16) 5.989×10^2

17) $4.621 \div 10^3$

18) 58.858×10^1

19) $5.7 \div 10^4$

20) 74.348×10^1

Answers

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

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0

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Name: **Answer Key**

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Answers

1. **0.008416**
2. **4,570**
3. **0.00438**
4. **193.2**
5. **0.047**
6. **42,880**
7. **0.0073**
8. **46.7**
9. **0.0015**
10. **43,449**
11. **7.26191**
12. **3,770**
13. **0.006399**
14. **1,464**
15. **0.7554**
16. **598.9**
17. **0.004621**
18. **588.58**
19. **0.00057**
20. **743.48**

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0