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| **Mental Math with Powers of 10** |
| Expresses and uses powers of 10 in a variety of forms“1000 is the same as 10 × 10 × 10 and can also be written as 103. is the same as andcan also be written as 10–3.” | Uses mental math to multiply or divide by powers of 10“3.56 × 103 = 3.56 × 1000 = 35603.56 ÷ 103 = 3.56 ÷ 1000 = 0.003 56”  | Relates multiplication by a negative power and division by a positive power and vice versa“10–3 is .So, I think that multiplying by 10–3 will be the same as dividing by 103. This means that 3.56 × 10–3 = 0.003 56. I checked with my calculator, and I am correct.” | Solves problems involving multiplying or dividing by powers of 10“8.4 🞏 102 = 0.084This is the same as 8.4 🞏 100 = 0.084.The answer is smaller than 8.4. If I multiplied 8.4 by 100, the answer would be greater. So, I will use division. I’ll check:8.4 ÷ 100 = 0.084, which is the answer I want.” |
| **Observations/Documentation** |
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