Algebra: Patterns in Division

Rami has a 1,156-page book. If he reads 12 pages a day, about how long will it take him to finish reading the book?

You divide to find the answer.

$1,156 \div 12$

You can estimate to find the number of days it will take Rami to read the book.

Estimate: 1,156 rounds down to 1,000.
12 rounds down to 10.

$1,000 \div 10$

There are zeros in dividend and in divisor. Cancel out one zero in each.

$1,000 \div 10 = 100$

So, it will take Rami about 100 days to read the book.

You can check this estimate by multiplying. Multiply the divisor by the quotient.

$10 \times 100 = 1,000$

Examples:

A- Use basic facts and patterns to find the quotient.
1) $80 \div 8 = $ **8**

2) $5,600 \div 7 = $ **800**

3) $45,000 \div 90 = $ **500**

4) $540,000 \div 60 = $ **9,000**

B- Compare. Use <, > or =
5) $2,100 \div 70 \underline{=} 210 \div 7$

6) $6,000 \div 30 \underline{>} 600 \div 3$

7) $810 \div 90 \underline{<} 8,100 \div 9$

8) $4,000 \div 100 \underline{=} 400 \div 10$