30)5,603

Divide by 2 - Digit Divisors

Divide. 5,603 ÷ 30 = n

STEP I:

Decide where to place the first digit in the quotient. Are there enough thousands? NO; 5 < 30. Are there enough hundreds? YES; 56 > 30.

The first digit goes in the hundreds place.

| STEP 2: 30)56 Divide the hundreds. Write the I in the hundreds place. Multiply. 30 × 1 Subtract. 56 - 30 Compare. 16 < 30 | $ \begin{array}{r} 1\\30)\overline{5,603}\\ \underline{30}\\16\end{array} $ |
|--|--|
| STEP 3: Divide the tens. Write the 5 in the tens place. Multiply. 30 × 5 Subtract. 160 - 150 Compare. 10 < 30 | $ \begin{array}{r} 15\\30)5,603\\\underline{30}\\160\\\underline{150}\\10\end{array} \end{array} $ |
| STEP 4: Divide the ones. 30)103 Write the 3 in the ones place. Multiply. 30 × 3 Subtract. 103 - 90 Compare. 13 < 30 | $ \begin{array}{r} $ |

So, 5,603 ÷ 30 = 153 r 13

Grade 5

13

Bright Video Shop received a shipment of 832 video cassettes. The video cassettes were packaged in 32 cartons. Each carton held the same number of cassettes. How many video cassettes were in each carton?

| STEP I: 832 ÷ 32 | |
|--|---------------------|
| Decide where to place the first digit. | 32)832 |
| Are there enough hundreds? | |
| NO; 8 < 32. | |
| Place the first digit in the tens place. | |
| STEP 2: | |
| Divide the 83 tens. | 2 |
| | 32 832 |
| Multiply. 32 × 2 | 32)832 <u>64</u> |
| Subtract. 83 – 64 | |
| Compare. 19 < 32 | 19 |
| STEP 3: | |
| Divide the 192 ones. | 26 |
| Multiply 32 × 6 | 32)832 |
| Subtract 192 - 192 | <u>64</u> |
| | 192 |
| | <u>192</u> |

So, each carton held 26 video cassettes.

You can use multiplication to check your answer. Multiply the divisor by the quotient. Add any remainder.

 $32 \times 26 = 832$. The answer checks.

Examples:

| A- Estimate the quotient. | | | | | | |
|---------------------------|---|----------------|---|---|--|--|
| I) 37)242 | = | 40)240 | = | 6 | | |
| 2)158 ÷ 84 | = | 160 + 80 | = | 8 | | |

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My Real Life

Ali watches TV for 28 hours every week. How many hours does he watch per day?



28 + 7 = 4 hours per day

