

MAFS.5.NBT.2.6

Find whole number quotients of whole numbers with up to four digit dividends and two digit divisors.

- Estimate quotients before solving.
- Understand how to represent and solve whole number division problems in multiple ways.
- Understand the concept of division: sharing or grouping numbers into equal parts.
- Find whole number quotients.
- Divide whole numbers up to four digit dividends and two digit divisors.
- Use strategies based on place value and properties of operations.
- Identify the relationship between multiplication and division.
- Illustrate and explain the calculation by using equations, rectangular arrays and area models.

What is division?

What is division?

Division is sharing or grouping numbers into equal parts.

Division is breaking a whole into equal groups.

Division is determining how many are in each group.

Division is the inverse operation of Multiplication.

Vocabulary

40 $\sqrt{1280}$

Vocabulary

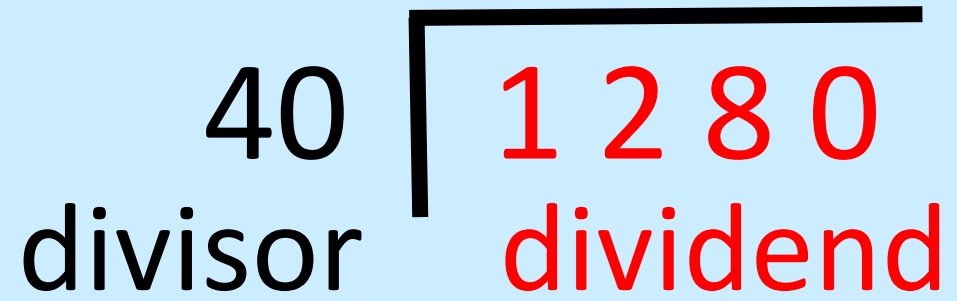
40
divisor

$$\overline{)1280}$$

Vocabulary

40
divisor

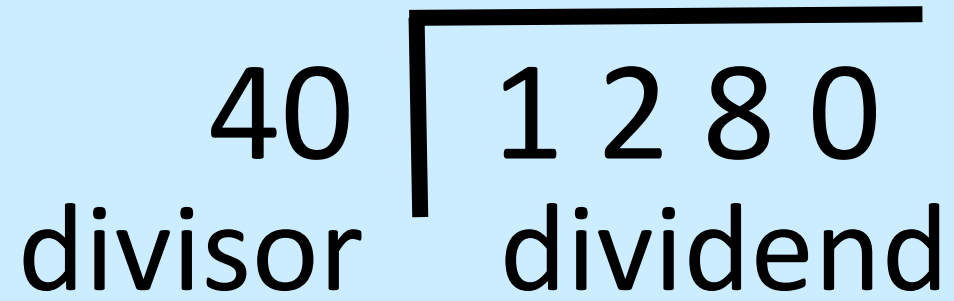
1 2 8 0
dividend



Vocabulary

40
divisor

1 2 8 0
dividend



Estimation: What do you estimate the quotient will be?

$$40 \overline{) 1280}$$

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$$40 \overline{) 1280}$$

$$40 \overline{) 1200}$$

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$$40 \overline{) 1280}$$

$$40 \overline{) 1200}$$

I know that
 $4 \times 3 = 12.$

Estimation: What do you estimate the quotient will be?

$$40 \overline{) 1280}$$

$$40 \overline{) 1200}$$

I know that

$$40 \times 30 = 1200.$$

Estimation: What do you estimate the quotient will be?

$$40 \overline{) 1280}$$

$$40 \overline{) 1200} \quad 30$$

I estimate the quotient is about 30.

Estimation: What do you estimate the quotient will be?

$$22 \overline{) 154}$$

Estimation: What do you estimate the quotient will be?

$$22 \overline{) 154}$$

$$20 \overline{) 160}$$

Estimation: What do you estimate the quotient will be?

$$22 \overline{) 154}$$

$$20 \overline{) 160} \quad 8$$

If $2 \times 8 = 16$,
Then $20 \times 8 = 160$.
My estimate is 8.

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