

DIVISION WITH REMAINDERS

BY
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TERMS TO KNOW

DIVIDEND THE NUMBER THAT IS BEING DIVIDED IN A DIVISION PROBLEM

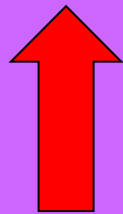
DIVISOR THE NUMBER THAT DIVIDES THE DIVIDEND

QUOTIENT THE ANSWER IN A DIVISION PROBLEM

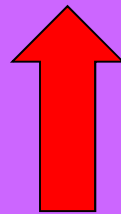
REMAINDER THE AMOUNT LEFT OVER WHEN YOU FIND A QUOTIENT

SETTING UP THE PROBLEM

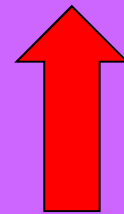
$$37 \div 5 = n$$



dividend

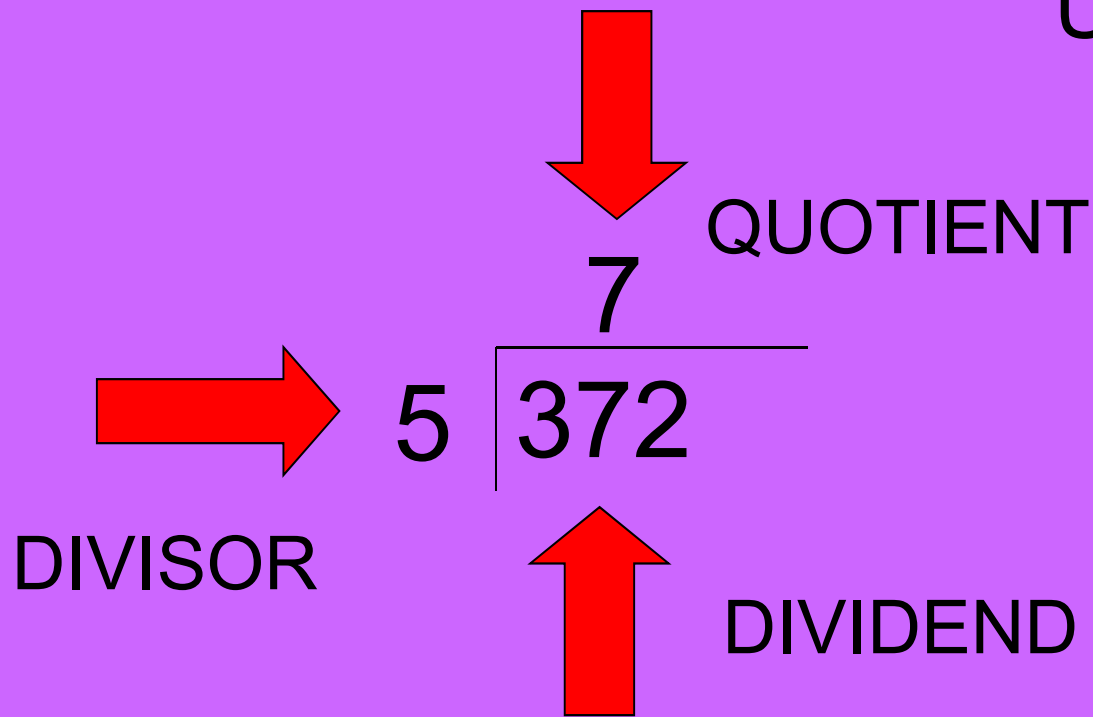


divisor



quotient

ANOTHER WAY TO SET UP THE PROBLEM



STEP 1

$$\begin{array}{r} 7 \\ \hline 5 \overline{) 37} \end{array}$$

DIVIDE

Ask yourself:

How many sets of 5 are in
37?

Place the 7 over the 37

STEP 2

$$\begin{array}{r} 7 \\ 5 \overline{) 372} \\ \underline{35} \end{array}$$

MULTIPLY

- Multiply 5×7
- Place the product under the 37

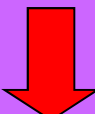
STEP 3

$$\begin{array}{r} 7 \\ 5 \overline{) 372} \\ \underline{-35} \\ 2 \end{array}$$

SUBTRACT

- SUBTRACT 35 FROM 37
- PLACE THE DIFFERENCE UNDER THE 35

STEP 4

$$\begin{array}{r} 7 \\ 5 \overline{) 372} \\ \underline{-35} \\ 22 \end{array}$$


BRING DOWN

- LOOK AT THE DIVIDEND
 - YOU HAVE USED THE 3 AND 7
 - NOW YOU ARE GOING TO USE THE 2
-
- BRING THE 2 IN THE ONES POSITION DOWN BESIDE THE 2 YOU JUST SUBTRACTED

START THE PROCESS OVER

$$\begin{array}{r} 74 \\ 5 \overline{) 372} \\ \underline{-35} \\ 22 \end{array}$$

DIVIDE

Ask yourself:

How many sets of 5 are in 22?

Place the 4 over the 2

$$\begin{array}{r} 74 \\ 5 \overline{) 372} \\ \underline{-35} \\ 22 \\ 20 \end{array}$$

MULTIPLY

- MULTIPLY 5 x 4

- PLACE THE PRODUCT UNDER THE 22

74

$$5 \overline{) 372}$$

$$\underline{-35}$$

22

$$\underline{-20}$$

2

SUBTRACT

- SUBTRACT 20 FROM 22
- PLACE THE DIFFERENCE UNDER THE 20

$$5 \overline{) 372} \text{ — } \text{BRING DOWN}$$

74 R2

$$\underline{-35}$$

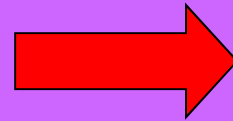
$$22$$

$$\underline{-20}$$
$$2$$

- LOOK AT THE 372
- WE HAVE ALREADY USED THE 3,7, AND 2.
- THERE IS NOT A NUMBER TO THE RIGHT OF THE 2 TO BRING DOWN.
- THEREFORE, THE REMAINDER IS 2

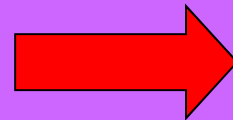
TO REMEMBER
THE ORDER IN WHICH TO DO
LONG DIVISION

DIVIDE



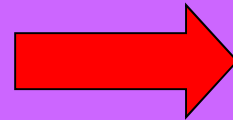
DIRTY

MULTIPLY



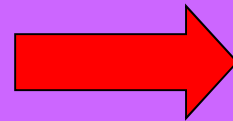
MONKEYS

SUBTRACT



SMELL

BRING DOWN



BAD

YOU TRY!

$$4 \overline{)273}$$

$$3 \overline{)149}$$

CHECK YOUR WORK

$$\begin{array}{r} 68 \text{ R1} \\ 4 \overline{) 273} \\ \underline{-24} \quad \downarrow \\ 33 \\ \underline{-32} \\ 1 \end{array}$$

$$\begin{array}{r} 49 \text{ R2} \\ 3 \overline{) 149} \\ \underline{-12} \quad \downarrow \\ 29 \\ \underline{-27} \\ 2 \end{array}$$