

Luna's Space Adventure

Name _____

Grade 5 · Dividing by two digits · 5.NBT.B.6

Date _____



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Divide Estimate first: how many times does the divisor go in?

1

$$47 \overline{)4452}$$

2

$$42 \overline{)3528}$$

3

$$25 \overline{)1925}$$

4

$$48 \overline{)2660}$$

5

$$18 \overline{)574}$$

6

$$25 \overline{)2014}$$

Check with multiplication Quotient $\times$ divisor + remainder = dividend.

$$36 \times 29 + 2 = \boxed{}$$

$$37 \times 20 + 2 = \boxed{}$$

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ANSWER KEY



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Divide Estimate first: how many times does the divisor go in?

1 $47 \overline{) 4452}$ *94 R34*

check: $94 \times 47 + 34 = 4452$

2 $42 \overline{) 3528}$ *84*

check: $84 \times 42 = 3528$

3 $25 \overline{) 1925}$ *77*

check: $77 \times 25 = 1925$

4 $48 \overline{) 2660}$ *55 R20*

check: $55 \times 48 + 20 = 2660$

5 $18 \overline{) 574}$ *31 R16*

check: $31 \times 18 + 16 = 574$

6 $25 \overline{) 2014}$ *80 R14*

check: $80 \times 25 + 14 = 2014$

Check with multiplication Quotient $\times$ divisor + remainder = dividend.

$36 \times 29 + 2 =$ *1046*

$37 \times 20 + 2 =$ *742*

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GUIDE

① What this sheet practises

Dividing numbers up to four digits by two-digit numbers, finding the quotient and remainder, and checking with multiplication.

② A problem from the sheet, worked out

Divide Estimate first: how many times does the divisor go in?

1

$$\begin{array}{r} 94 \text{ R}34 \\ 47 \overline{)4452} \end{array}$$

check: $94 \times 47 + 34 = 4452$

2

$$\begin{array}{r} 84 \\ 42 \overline{)3528} \end{array}$$

check: $84 \times 42 = 3528$

3

$$\begin{array}{r} 77 \\ 25 \overline{)1925} \end{array}$$

check: $77 \times 25 = 1925$

How: Estimate how many times the divisor fits, multiply, subtract, then bring down the next digit and repeat. Check: quotient $\times$ divisor + remainder = the number you divided.

③ Words to know

dividend the number being divided

divisor the number you divide by

quotient the answer to a division

remainder what's left over, less than the divisor

④ Watch for

- A remainder as big as the divisor or bigger: the estimate was too small.
- Skipping a 0 in the quotient when the divisor doesn't fit after bringing down a digit.
- Keeping an estimate that's too big, so the product is more than what it's taken from.

⑤ Where it fits

BEFORE

4.NBT.B.6

Divide up to four-digit numbers by one-digit numbers, with remainders.

THIS SHEET

5.NBT.B.6

Divide up to four-digit numbers by two-digit divisors.

NEXT

5.NBT.B.7

Add, subtract, multiply and divide decimals to hundredths.

⑥ Helping at home

Share a big pile of dried beans into cups of 12 and count what's left. Then check: cups $\times$ 12, plus the leftovers, should make the whole pile.