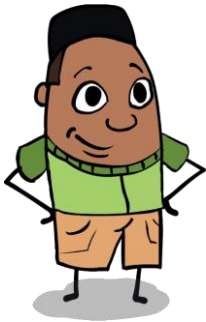# Long division: 1-digit divisor, with remainders

1. Label the following vocabulary on the math expression below (quotient, dividend, divisor, remainder)

$$6 \overline{) 502} = 83 \text{ R}4$$

Don't forget!

STEPS

D	÷	Divide
M	X	Multiply
S	−	Subtract
B	↓	Bring down

quotient

divisor

dividend

$$2 \overline{) 21} = 10 \text{ R } 1$$

2. Evaluate

2.1.

$$5 \overline{) 963}$$

2.2.

$$2 \overline{) 561}$$

2.3.

$$9 \overline{) 85}$$

Long division: 1-digit divisor, with remainders

3. For each division problem, check to see if it is correct by multiplying. Don't forget to add in the remainder!

3.1.

$$2\overline{)87} = 43\ R2$$

3.2.

$$5\overline{)73} = 14\ R3$$

3.3.

$$8\overline{)90} = 11\ R2$$

3.4.

$$7\overline{)87} = 12\ R1$$

3.5.

$$5\overline{)517} = 103\ R3$$

3.6.

$$6\overline{)333} = 55\ R2$$

3.7.

$$5\overline{)458} = 91\ R3$$

3.8.

$$4\overline{)633} = 158\ R2$$

3.9.

$$8\overline{)412} = 51\ R4$$

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4. For each word problem, identify the dividend, divisor, quotient, and remainder

4.1. Mia had 75 marbles that he was sorting into 6 piles. Each pile had 12 marbles and he had 3 marbles left over.

Dividend: _____

Divisor: _____

Quotient: _____

Remainder: _____

4.2. Chen's aunt won $15,000 from the lottery, and generously decided to split her winnings with her family members. She ended up giving all 15 members of her family $937.50 each.

Dividend: _____

Divisor: _____

Quotient: _____

Remainder: _____

4.3. Eric was making cupcakes for his birthday party. Eric made a total of 12 cupcakes, each cupcake had 4 raspberries on top. The package of raspberries came with 50 raspberries, but Eric had 2 extra raspberries and ate them himself.

Dividend: _____

Divisor: _____

Quotient: _____

Remainder: _____

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5.Solve each word problem

5.1. Lucas was making cookies for her neighbors. If he made 72 cookies for his 7 neighbors, how many did each neighbor receive, and how many cookies did Lucas have left over?
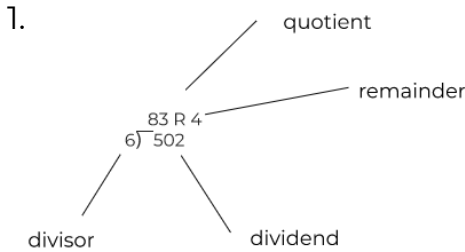
5.2. Denton Avenue Elementary school ordered 300 t-shirts for their field day. If each team had 9 members, how many shirts were left over?

Long division: 1-digit divisor, with remainders

Answer key

1.

quotient

remainder

$$6 \overline{)502} \quad 83 \text{ R } 4$$

divisor

dividend

2.1. 192 R 3

$$5 \overline{)963}$$
$$-5$$
$$\underline{46}$$
$$45$$
$$\underline{13}$$
$$10$$
$$3$$

2.2. 280 R 1

$$2 \overline{)561}$$
$$-4$$
$$\underline{16}$$
$$16$$
$$01$$

2.3. 9 R 4

$$9 \overline{)85}$$
$$81$$
$$4$$

3.1. 43 R1 **3.2.** 14 R3 **3.3.** 11 R2

3.4. 12 R3 **3.5.** 103 R2 **3.6.** 55 R3

3.7. 91 R3 **3.8.** 158 R1 **3.9.** 51 R4

4.1. 75 marbles
6 piles
12 marbles
3 marbles

4.2. $15,000
16 (15 members plus Steven's aunt)
$937.50
no remainder

4.3. 50 raspberries
12 cupcakes
4 raspberries
2 raspberries

5.1. 10 cookies for each neighbor and 2 cookies left over

5.2. 3 shirts left over

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