Name: .... Class: ....

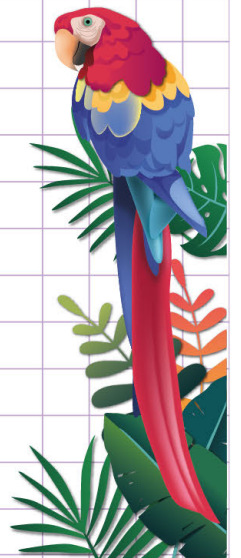Divide 2-digit numbers by 1-digit number using arrays: with or without remainders

Use arrays to divide the following expressions.

a. $27 \div 6 =$ _____ R _____

b. $42 \div 7 =$ _____ R _____

c. $33 \div 4 =$ _____ R _____

d. $72 \div 9 =$ _____ R _____

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Name: .... Class: ....

Divide 2-digit numbers by 1-digit number using arrays: with or without remainders

Use arrays to divide the following expressions.

a.   27 ÷ 6 = _____ R _____

Let's first of all draw 27 stars divided into 6 columns.

✶ ✶ ✶ ✶ ✶ ✶
✶ ✶ ✶ ✶ ✶ ✶   You see that, we have 4 full rows and 3 stars in the last row.
✶ ✶ ✶ ✶ ✶ ✶   This implies that our quotients is equal to 4 and our remainder is equal to 3
✶ ✶ ✶ ✶ ✶ ✶
✶ ✶ ✶   Therefore, 27 ÷ 6 = 4 R 3

b.   42 ÷ 7 = _____ R _____

Let's first of all draw 42 stars divided into 7 columns.

✶ ✶ ✶ ✶ ✶ ✶ ✶
✶ ✶ ✶ ✶ ✶ ✶ ✶   You see that, we have 6 full rows and 0 half filled row.
✶ ✶ ✶ ✶ ✶ ✶ ✶
✶ ✶ ✶ ✶ ✶ ✶ ✶   This implies that our quotients is equal to 6 and our remainder is equal to 0
✶ ✶ ✶ ✶ ✶ ✶ ✶
✶ ✶ ✶ ✶ ✶ ✶ ✶   Therefore, 42 ÷ 7 = 6 R 0

c.   33 ÷ 4 = _____ R _____

Let's first of all draw 3 stars divided into 4 columns.

✶ ✶ ✶ ✶
✶ ✶ ✶ ✶   You see that, we have 8 full rows and 1 star in the last row.
✶ ✶ ✶ ✶
✶ ✶ ✶ ✶   This implies that our quotients is equal to 8 and our remainder is equal to 1
✶ ✶ ✶ ✶
✶ ✶ ✶ ✶   Therefore, 33 ÷ 4 = 8 R 1
✶ ✶ ✶ ✶
✶ ✶ ✶ ✶
✶

d.   72 ÷ 9 = _____ R _____

Let's first of all draw 72 stars divided into 9 columns.

✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶
✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶   You see that, we have 8 full rows and 0 half full rows.
✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶
✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶   This implies that our quotients is equal to 8 and our remainder is 0
✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶
✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶   Therefore, 72 ÷ 9 = 8 R 0
✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶
✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶ ✶