

# DIVISION WITH REMAINDERS

## A DIVISION WITHOUT REMAINDERS

### A.1 CALCULATING DIVISIONS

Ex 1:

$$12 \div 3 = \square$$

Ex 2:

$$40 \div 5 = \square$$

Ex 3:

$$42 \div 6 = \square$$

Ex 4:

$$28 \div 7 = \square$$

Ex 5:

$$24 \div 8 = \square$$

Ex 6:

$$72 \div 8 = \square$$

### A.2 CALCULATING DIVISIONS

Ex 7:

$$22 \div 11 = \square$$

Ex 8:

$$60 \div 20 = \square$$

Ex 9:

$$200 \div 100 = \square$$

Ex 10:

$$70 \div 35 = \square$$

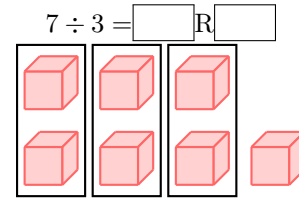
Ex 11:

$$48 \div 12 = \square$$

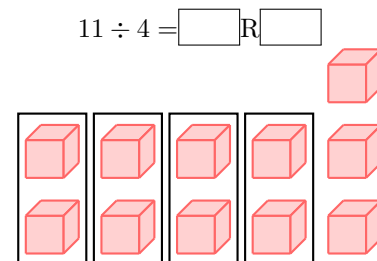
## B DIVISION WITH REMAINDERS

### B.1 DIVIDING CUBES WITH REMAINDERS

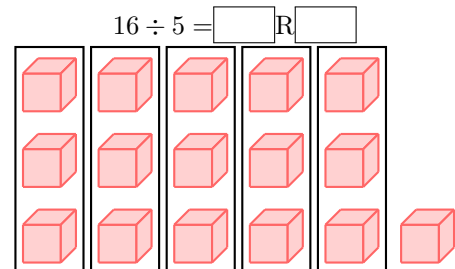
Ex 12: Divide the cubes into groups:



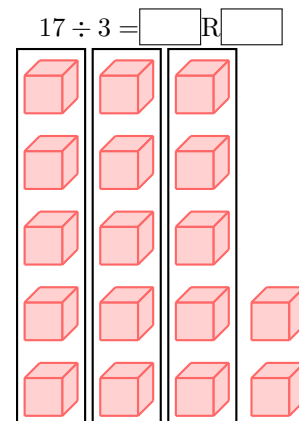
Ex 13: Divide the cubes into groups:



Ex 14: Divide the cubes into groups:

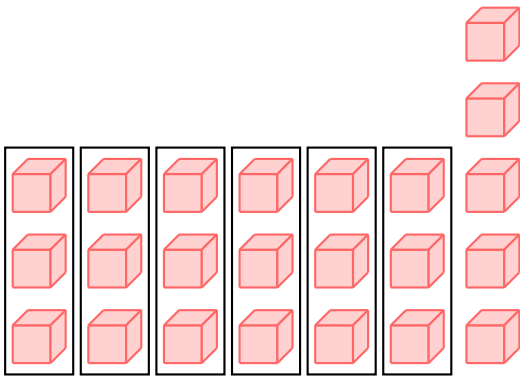


Ex 15: Divide the cubes into groups:



Ex 16: Divide the cubes into groups:

$$23 \div 6 = \square R \square$$



## B.2 DIVIDING NUMBERS WITH REMAINDERS

**Ex 17:** Divide the number:

$$5 \div 2 = \boxed{\phantom{00}} \text{R} \boxed{\phantom{00}}$$

**Ex 18:** Divide the number:

$$7 \div 3 = \boxed{\phantom{00}} \text{R} \boxed{\phantom{00}}$$

**Ex 19:** Divide the number:

$$13 \div 4 = \boxed{\phantom{00}} \text{R} \boxed{\phantom{00}}$$

**Ex 20:** Divide the number:

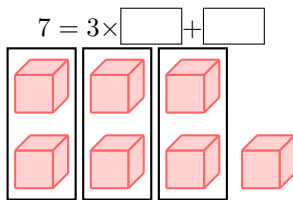
$$17 \div 5 = \boxed{\phantom{00}} \text{R} \boxed{\phantom{00}}$$

**Ex 21:** Divide the number:

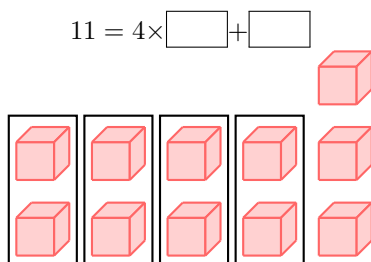
$$22 \div 6 = \boxed{\phantom{00}} \text{R} \boxed{\phantom{00}}$$

## B.3 FINDING MULTIPLICATION WITH REMAINDERS USING CUBES

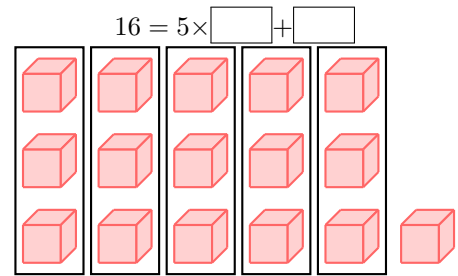
**Ex 22:** Write the multiplication and remainder equation for the cubes:



**Ex 23:** Write the multiplication and remainder equation for the cubes:

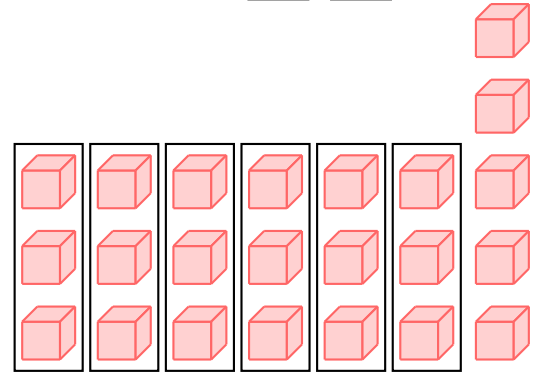


**Ex 24:** Write the multiplication and remainder equation for the cubes:

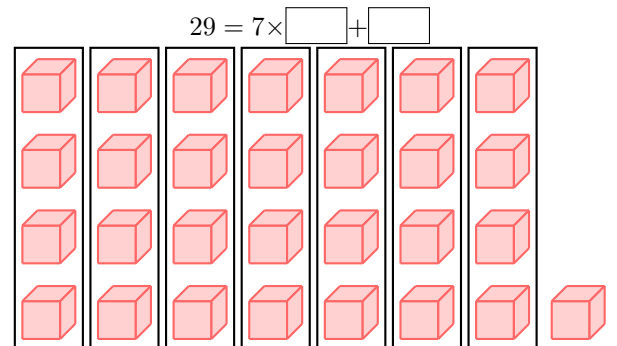


**Ex 25:** Write the multiplication and remainder equation for the cubes:

$$23 = 6 \times \boxed{\phantom{00}} + \boxed{\phantom{00}}$$



**Ex 26:** Write the multiplication and remainder equation for the cubes:



## B.4 FINDING MULTIPLICATION WITH REMAINDERS

**Ex 27:** Write the multiplication and remainder equation:

$$7 = 3 \times \boxed{\phantom{00}} + \boxed{\phantom{00}}$$

**Ex 28:** Write the multiplication and remainder equation:

$$13 = 4 \times \boxed{\phantom{00}} + \boxed{\phantom{00}}$$

**Ex 29:** Write the multiplication and remainder equation:

$$17 = 5 \times \boxed{\phantom{00}} + \boxed{\phantom{00}}$$

**Ex 30:** Write the multiplication and remainder equation:

$$22 = 6 \times \boxed{\phantom{00}} + \boxed{\phantom{00}}$$

**Ex 31:** Write the multiplication and remainder equation:

$$25 = 3 \times \boxed{\phantom{00}} + \boxed{\phantom{00}}$$

## C LONG DIVISION

### C.1 CALCULATING ONE-STEP LONG DIVISION

**Ex 32:** On your paper, solve the long division:

$$4 \overline{)13}$$

$$13 \div 4 = \boxed{\phantom{00}} \text{ R } \boxed{\phantom{00}}$$

**Ex 33:** On your paper, solve the long division:

$$3 \overline{)19}$$

$$19 \div 3 = \boxed{\phantom{00}} \text{ R } \boxed{\phantom{00}}$$

**Ex 34:** On your paper, solve the long division:

$$5 \overline{)24}$$

$$24 \div 5 = \boxed{\phantom{00}} \text{ R } \boxed{\phantom{00}}$$

**Ex 35:** On your paper, solve the long division:

$$6 \overline{)59}$$

$$59 \div 6 = \boxed{\phantom{00}} \text{ R } \boxed{\phantom{00}}$$

**Ex 36:** On your paper, solve the long division:

$$7 \overline{)52}$$

$$52 \div 7 = \boxed{\phantom{00}} \text{ R } \boxed{\phantom{00}}$$

### C.2 CALCULATING TWO-STEPS LONG DIVISION

**Ex 37:** On your paper, solve the long division:

$$3 \overline{)44}$$

$$44 \div 3 = \boxed{\phantom{00}} \text{ R } \boxed{\phantom{00}}$$

**Ex 38:** On your paper, solve the long division:

$$3 \overline{)269}$$

$$269 \div 3 = \boxed{\phantom{00}} \text{ R } \boxed{\phantom{00}}$$

**Ex 39:** On your paper, solve the long division:

$$5 \overline{)423}$$

$$423 \div 5 = \boxed{\phantom{00}} \text{ R } \boxed{\phantom{00}}$$

**Ex 40:** On your paper, solve the long division:

$$4 \overline{)130}$$

$$130 \div 4 = \boxed{\phantom{00}} \text{ R } \boxed{\phantom{00}}$$

**Ex 41:** On your paper, solve the long division:

$$7 \overline{)252}$$

$$252 \div 7 = \boxed{\phantom{00}} \text{ R } \boxed{\phantom{00}}$$

### C.3 CALCULATING THREE-STEPS LONG DIVISION

**Ex 42:** On your paper, solve the long division:

$$4 \overline{)730}$$

$$730 \div 4 = \boxed{\phantom{00}} \text{ R } \boxed{\phantom{00}}$$

**Ex 43:** On your paper, solve the long division:

$$5 \overline{)576}$$

$$576 \div 5 = \boxed{\phantom{00}} \text{ R } \boxed{\phantom{00}}$$

**Ex 44:** On your paper, solve the long division:

$$\begin{array}{r} 6 \overline{)1456} \\ \\ \\ \\ \\ \\ \end{array}$$
$$1456 \div 6 = \boxed{\phantom{00}} \text{ R } \boxed{\phantom{00}}$$

**Ex 45:** On your paper, solve the long division:

$$\begin{array}{r} 9 \overline{)1968} \\ \\ \\ \\ \\ \\ \end{array}$$
$$1968 \div 9 = \boxed{\phantom{00}} \text{ R } \boxed{\phantom{00}}$$

eggs

**Ex 50:** A gardener is arranging 65 flowers into vases. Each vase holds 7 flowers.

How many full vases does the gardener have?

vases

How many flowers will be left over?

flowers

**Ex 51:** A baker packs 42 cookies into boxes. Each box holds 3 cookies.

How many full boxes does the baker have?

boxes

How many cookies will be left over?

cookies

## D TWO WAYS TO THINK ABOUT DIVISION

### D.1 FINDING NUMBER IN EACH GROUP AND REMAINDER

**Ex 46:** 5 friends want to share 22 apples equally.  
How many apples will each friend get?

apples

How many apples will be left over?

apples

**Ex 47:** 4 children want to share 18 marbles equally.  
How many marbles will each child get?

marbles

How many marbles will be left over?

marbles

**Ex 48:** 3 friends want to share 37 cherries equally.  
How many cherries will each friend get?

cherries

How many cherries will be left over?

cherry

### D.2 FINDING NUMBER OF GROUPS AND REMAINDER

**Ex 49:** A farmer is packing 34 eggs into boxes. Each box holds 6 eggs.

How many boxes does the farmer need?

boxes

How many eggs will be left over?