

om althematics

Learner's Book

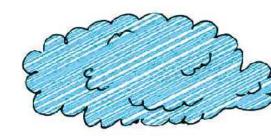


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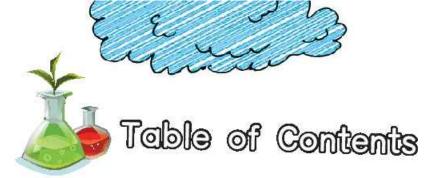


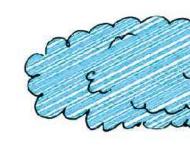


The Primary Mathematics brings together the world-class Cambridge
Primary mathematics curriculum from Cambridge International
Examinations. It is an innovative combination of curriculum and
resources designed to support teachers and learners to success in
primary mathematics through best-practice international maths
teaching and a problem-solving approach.

The Cambridge curriculum is dedicated to helping schools develop learners who are confident, responsible, reflective, innovative and engaged. To this end, the textbooks provide support based on pedagogical practice found in successful schools around the world. This series is arranged to ensure that the curriculum is covered whilst allowing teachers to use a flexible approach.































What learners will learn and reinforce

The activities in this chapter give learners practice in the following topics:

Topic	In this topic, learners will:				
1.1. Order of operations	learn which operations are carried out first.				
1.2. Collecting money	work out the total price on a receipt.				
1.3. What is an integer?	identify positive and negative integers.				
1.4. Comparing and ordering integers	use number lines to order integers.				
1.5. Time zones	investigate the time difference between two different locations.				

Word bank

1	bracket	2	operation	3	add	4	subtract	5	multiply
6	divide	7	cent	8	dollar	9	collect	10	total
11	cash	12	change due	13	integer	14	positive	15	negative
16	nothing	17	nought	18	number line	19	compare	20	order
21	less than	22	greater than	23	least	24	greatest	25	time zone
26	time difference	27	approximately	28	universal time	29	how far ahead	30	how far behind
31	Greenwich Mean Time (GMT)								

3 1.1. Order of operations

Remember

Which operations would you use to find the answer to this question?

$$18-6 \div 3 = ?$$

We use brackets if we want certain operations carried out first. To make sure everyone gets the same answer when evaluating an expression, we use this order of operations:

- Do the operations in brackets.
- Multiply and divide, in order, from left to right.
- Then add and subtract, in order, from left to right.

= 9

Divide first:
$$14 \div 2 = 7$$

Then subtract: 16-7=9



$$\stackrel{\bullet}{\sim}$$
 Evaluate: $7 \times (4+8)$

$$=7\times12$$

= 84



Do the operation in brackets

first: 4+8=12

Then multiply: $7 \times 12 = 84$

The order of operations is: Brackets Multiply and Divide Add and Subtract



Primary Mathematics

1. Evaluate each expression.

Use the order of operations.

a)
$$18 + 4 \times 2$$

b)
$$25 - 12 \div 3$$

c)
$$24 + 36 \div 9$$

e)
$$50-7\times6$$

f)
$$7 \times (2+9)$$

h)
$$25 \div (9-4)$$

i)
$$13 - 6 + 8$$

j)
$$(9+6) \div 3$$

k)
$$19 + 56 \div 8$$

1)
$$8 \times (12 - 5)$$

2. Copy each number sentence.

Use brackets to make each number sentence true.

a)
$$36 \div 4 \times 3 = 3$$

b)
$$20 \div 5 \times 2 + 3 = 5$$

c)
$$10-4 \div 2-1=6$$

d)
$$6 \times 2 + 8 \div 4 = 15$$

Monsieur Lefèvre bought 2 boxes of fruit bars for his 3 children.

Each box has 6 fruit bars.

The children shared the fruit bars equally.

How many fruit bars did each child get?

Write an expression to show the order of operations you used.



START

$$5 \times 4 + 13$$
 85 110 - 100 ÷ 5 2 6 ÷ 3 + 14

33 90 16

80 + 7 × 6 + 10 532 6 + 54 ÷ 9 $60 \div 12 + 9$ 20

192 14 12 132

14 6 $24 \div 3 + 5$ 45 + 25 ÷ 5 7+7 + 7-2

0

147 3

30 - 21 ÷ 3 $80 + 8 \times 9 - 5$ 787 TRY AGAIN! 3

Directions:

Solve each problem and then find the correct answer out of the choices given. It will lead you to the next problem you need to solve.

49

YOU WON!

80 - 8 × 9 8

13

23

Primary Mathematics

1.2. Collecting money



This is a game for two players.

Place all the money in the bank.

Each put your counter at the beginning of the track.

Take turns to roll the dice and move that number of spaces.

If you land on an amount of money, take that amount from the bank.

If you land on a star, take a dollar from the bank.

When you have collected 100 cents, exchange them for a dollar from the bank.

The winner is the player with more money at the end of the track.

You will need:

a collection of

10-cent; 50-cent

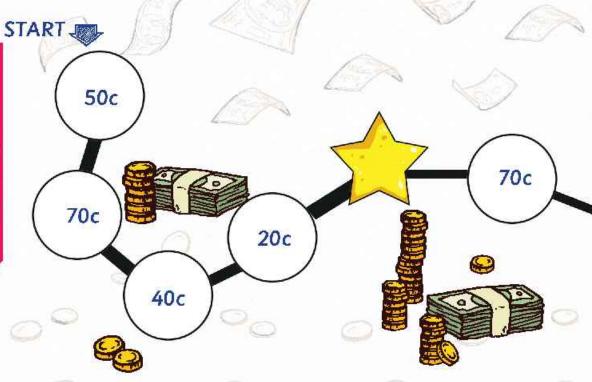
and dollar coins

or notes, a 1-6

dice, a tray or

dish to use as a

bank.



How much money did you collect?

Player 1 I collected \$ and cents.

Player 2 I collected \$ and cents.

Hint: put 10 cent coins in piles of 10 to make a dollar. Two 50-cent coins make a dollar.

