

Whole numbers. Mixed operations

Activities

1. Work out these calculations using the correct order of operations.

- a) $6 + 2 \cdot 4$
- b) $13 - 4 \cdot 3$
- c) $4 + 8 \div 4$
- d) $14 - 16 \div 4$
- e) $18 \div 6 - 2$
- f) $7 \cdot 2 - 5$

2. Calculate:

- a) $2 \cdot 3 - 4 \div 2$
- b) $35 \div 7 + 2 \cdot 3$
- c) $16 \div 8 - 6 \div 2$
- d) $1 \cdot 5 - 25 \div 5$

3. Calculate:

- a) $2 \cdot 6 \div 4$
- b) $36 \div 6 \cdot 2$
- c) $12 \div 3 \div 2$
- d) $15 \div 5 \cdot 2$

4. Calculate and compare the results:

- a) $(1 + 4) \cdot 3$
- a') $1 + 4 \cdot 3$
- b) $(10 - 6) \cdot 3$
- b') $10 - 6 \cdot 3$
- c) $(18 - 8) \div 2$
- c') $18 - 8 \div 2$

Explain what you observe of the results.

5. Match each question with its correct answer:

Question	A	B
a) $(4 + 3) \cdot 2$	14	10
b) $(3 + 2) \cdot (6 - 1)$	14	25
c) $(3 + 3) \cdot 5 - 2$	28	18
d) $(5 + 3) \cdot (5 - 2)$	24	18
e) $4 \div (2 + 2)$	0	1
f) $12 - 2 \cdot (3 + 2)$	2	50
g) $14 - 7 \div (5 + 2)$	2	13
h) $(2 + 8) \div 5 + 5$	7	1

6. Calculate:

- a) $5 \cdot [13 - (4 - 1)]$
- b) $64 \div [23 - (16 - 1)]$
- c) $3 \cdot 20 - (12 - 7)$

7. Elsa decides to sell all her old PC games, music CDs and film DVDs. The price list is:

- PC games : €5
- Music CDs: €2
- Film DVDs: €7

How much money will she get if she sells 11 PC games, 2 music CDs and 3 film DVDs?

8. Carmen is running in a 10000 meters race. She runs every 400 m every 65 seconds. How long will it take her to complete the 25 laps of the race?. How long is a lap?

9. Robert has downloaded 38 music tracks from the Internet. The average length of each track is 125 seconds. What is the total playing time of the music tracks?

10. Karen can read at a speed of 225 words per minute.

- a) How many words can she read in 25 minutes.
- b) A book has 8100 words. How long will it take to her to read the book?

11. Here are some expensive bad habits:

Smoking	Eating	Drinking
1 packet of cigarettes a day costing €4	1 biscuit a day costing €1	1 refreshment a day costing €1

Calculate the cost of each of these bad habits for

- a) a week
- b) a month
- c) a year