



Multiple operations

CAPS: Grade 6, Term 3

Numbers, Operations and Relationships

Multiple operations on whole numbers with or without brackets

Note

Remember:

There are certain conventions or ways of doing things in Mathematics that you must follow so that there is only one correct answer that everyone is able to find.

The way in which you complete number sentences must be done in a certain order so that everyone will get the same answer.

You must work out number sentences in the following order:

1. Work out **b**rackets first.

E.g. $6 \times (3+4) = 6 \times 7 = 42$

2. Complete **m**ultiplication or **d**ivision next from left to right.

E.g. $4 \times 6 \div 8 = 3$

3. Complete **a**ddition or **s**ubtraction next from left to right.

E.g. $4 + 3 \times 3 = 4 + 9 = 13$

Activity 1

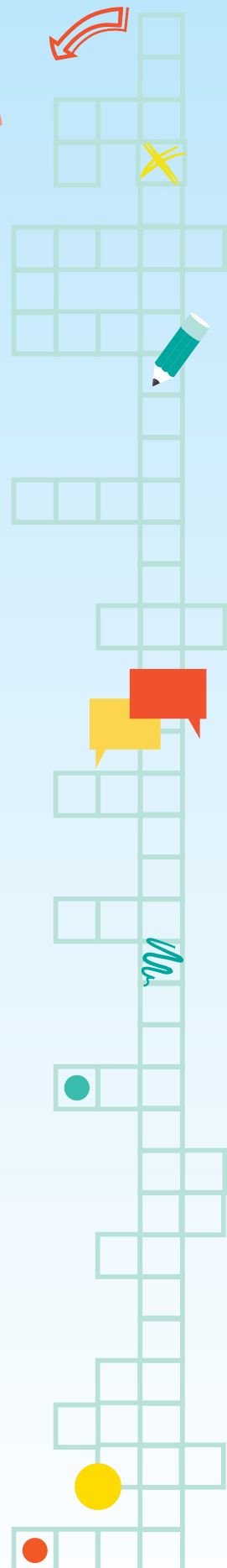
Calculate the following number sentences.

(a) $6 + 4 \times 5 =$ _____

(b) $3 \times (5 + 2) =$ _____

(c) $10 + 3 - 2 \times 6 =$ _____

(d) $7 \times 4 \div 2 + 5 =$ _____





e $(9 + 9) + (3 + 2) =$ _____.

f $16 \div 2 \div 2 =$ _____.

g $18 - (4 \times 3) =$ _____.

h $(6 + 2) \times 3 =$ _____.

i $9 - 3 \div 3 =$ _____.

j $(5 \times 3) - (4 \times 3) =$ _____.

Activity 2

Complete the number sentences below by filling in the correct sign.

a $8 \text{ _____ } 4 \div 2 + 5 = 21$

b $38 \text{ _____ } (4 \times 3) = 26$

c $27 \text{ _____ } 3 \div 3 = 26$

d $80 \text{ _____ } 2 \div 2 = 20$

e $6 \times 5 \div 2 \text{ _____ } 3 = 18$

f $16 \text{ _____ } 4 \div 1 = 4$

g $78 \text{ _____ } (4 \times 2) = 70$

h $20 + 4 \text{ _____ } 2 = 28$

i $15 \times (5 \text{ _____ } 5) = 150$

j $50 \text{ _____ } 3 - 8 \times 6 = 5$

Extension for speedy workers

k $6 \times 4 + 2 \text{ _____ } 3 = 30$

l $25 \text{ _____ } (4 \times 2) = 33$

m $10 + 16 \text{ _____ } 2 = 13$

n $45 \text{ _____ } 5 + (1 \times 2) = 11$

o $80 \text{ _____ } 2 + 3 \times 6 = 58$

p $5 + 11 \text{ _____ } 2 = 33$

q $60 \text{ _____ } 2 + 3 \times 5 = 92$

r $9 \times 2 + 2 \text{ _____ } 10 = 44$

s $12 \text{ _____ } (4 \times 2) = 60$

t $24 \text{ _____ } (4 \times 6) = 120$



Activity 3

③ Fill in brackets to make these number sentences true.

a $6 + 4 \times 3 = 30$

b $3 \times 18 + 2 = 60$

c $10 + 3 - 2 \times 8 = 18$

d $7 \times 4 \div 2 + 5 = 4$

e $9 + 9 + 3 \times 2 = 62$

f $48 \div 2 + 2 = 12$

g $18 - 4 \times 2 = 28$

h $9 + 1 \times 3 = 30$

i $72 \div 12 - 3 = 8$

j $5 \times 10 - 4 \times 2 = 60$

Extension for speedy workers

k $100 - 45 + 5 - 2 = 58$

l $3 \times 5 - 12 + 2 = 1$

m $90 \div 5 - 2 = 30$

n $16 \div 2 + 2 = 4$

o $8 + 8 + 4 - 3 = 17$

p $72 \div 3 - 12 = 12$

q $12 + 8 + 10 - 3 = 27$

r $3 \times 5 + 4 - 3 = 16$

s $96 \div 12 - 8 = 0$

t $3 + 3 + 3 - 3 = 6$

Activity 4

Write six number sentences each with an answer of 40. E.g. $100 \div 10 \times 4 = 40$

You must use two operations (+, -, ÷, ×) in each number sentence.

Teacher Tip

Demonstrate to learners the different answers they will get if they do not follow the order of operations rules. They do not necessarily have to know the term: BODMAS or BOMDAS in order to learn and follow the rules, although it is a useful tool.

