Worksheet

Name :		Subject:	Math- Integers Practice worksheet
Class:	Grade 5 (A, B)	Date:	

Adding and subtracting integers
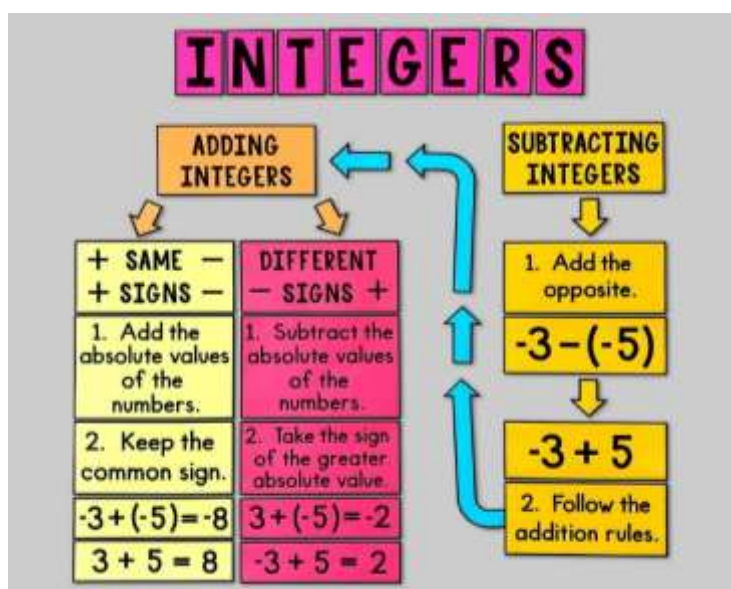
Q1) Find the value of the following:

$3 + (-8) =$ $(-9) - (-4) =$ $7 - 5 =$

$6 - (-4) =$ $(-4) - (-2) =$ $(-4) - 10 =$

$6 - 5 =$ $(-2) - 5 =$ $(-2) - 7 =$

$(-8) + (-2) =$ $8 + 6 =$ $(-9) + 10 =$

$8 + (-10) =$ $2 - (-10) =$ $8 - 5 =$

$8 - (-2) =$ $1 - (-7) =$ $4 + 2 =$

Q2) Find the value of the following:

12 + (-3) =

1 + (-3) =

(-8) + 2 =

(-8) + (-2) =

(-4) + (-1) =

5 + (-1) =

5 + (-7) =

2 + (-5) =

9 + (-6) =

6 + (-7) =

0 + (-3) =

(-6) + (-3) =

(-4) + 4 =

(-8) + 4 =

(-10) + 7 =

(-1) + 9 =

(-4) + 2 =

(-2) + 2 =

10 + (-3) =

12 + (-7) =

Q3) April 2024 P1

Write a number in the box to make the calculation correct.

$$\boxed{} - 12 = -20$$

*****Finding the difference between two integers means

Bigger – smaller

Q4) Find the difference between the following:

a) 4 and – 4　　　　　　　_____

b) – 3 and 8　　　　　　　_____

c) 8 and – 12　　　　　　　_____

d) -2 and – 6　　　　　　　_____

e) 12 and 24　　　　　　　_____

f) -9 and – 3　　　　　　　_____

g) – 10 and 5　　　　　　　_____

Q5)

The table shows information about the highest and lowest temperatures recorded in Ottawa in 2021.

Month	Highest temperature	Lowest temperature
January	−5°	−14°
February	−3°	−10°
March	2°	−7°
April	11°	1°
May	19°	8°
June	24°	12°

Write the names of the two months which have the same difference between their highest and lowest temperatures.

.... and .... [1]

Q6) April 2023 P1

Here are two negative numbers.

−25

−10

Add the two numbers.

Write the answer.

.... [1]

Adding Decimals

Steps
1. Line them up by the decimal
2. Drop the decimal down
3. Fill in the place holders & solve

Example: $4.98 + 21.7$

$$
\begin{array}{r}
\overset{1}{} \\
4.98 \\
+\,21.70 \\
\hline
26.68
\end{array}
$$

Q1) Calculate the following.

   a) 12.9 + 7.25=

   b) 39.569 + 18=

   c) 67.26 + 0.843=

   d) 78 + 82.071

Q2) Calculate the following.

a) 89.36 – 18.24=_____
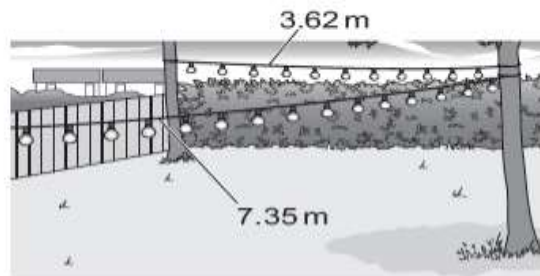
b) 71.23 - 53.11=_____

c) 24.36 -18.45=_____

d) 25 – 16.45= _____

e) 63.4 – 15.39=_____

Q3) April 2024 p1

Angelique decorates her garden with two sets of lights.

One set of lights has a length of 7.35 metres.
The other set of lights has a length of 3.62 metres.

Calculate the **total** length of the two sets of lights.

.... metres [1]

Missing number at the beginning?
Do the inverse and you are winning.

____ - 25 = 50   50 + 25 = _____

____ + 11 = 40   40 - 11 = _____

Missing number in the middle?
Do a subtraction, and solve the riddle.

64 - ____ = 24   ??   17 + ____ = 30
                         ?
64 - 24 = ____   30 - 17 = ____

Missing number at the end?
It's so simple, my friend.

34 + 26 = _____

50 - 15 = _____

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Q4) April 2023 p1

Complete.

(a) 141.56 + 13.213 = [   ]

[1]

(b) 17.512 − [   ] = 4.3

[1]

Q5) progression test 2025 p1

Write a number in each box to make the statement correct.

1.5 + [   ] + [   ] = 6.6

[1]

Q6) Write the missing numbers to make each statement correct.

a) [   ] - 52.2 = 48.78

c) [   ] + 25.3 = 54.24

b) 10.23 - [   ] = 7.25

d) 63.98 + [   ] = 92.56

Q7) April 2023 p1

Calculate.

$$32.723 + \frac{60}{1000}$$

.... [1]

Q8) April 2025 P 1

Oliver buys **two** different types of fruit.

He buys 10 of each type of fruit.

He spends exactly $20

Tick (✓) the **two** types of fruit he buys.

$0.20 $0.35 $0.45 $0.90

[ ]   [ ]   [ ]   [ ]

$0.95 $1.10 $2.00 $2.45

[ ]   [ ]   [ ]   [ ]

[1]

Unknown quantities

Q1) Work out the correct value of the picture in these number statements.

Tick the correct answer.

[red ice lolly] + 5c = 15c

[red ice lolly] = 5c ☐
= 10c ☐
= 15c ☐

[red/yellow/brown lolly] - [red lolly] = 5c

[red/yellow/brown lolly] = 5c ☐
= 10c ☐
= 15c ☐

[red/yellow/brown lolly] + [blue lolly] = 35c

[blue lolly] = 20c ☐
= 25c ☐
= 30c ☐

[blue lolly] + [green lolly] = 55c

[green lolly] = 25c ☐
= 30c ☐
= 35c ☐

Q2) Here is a grid with two symbols.

○	○	○	12
○	△	○	13
△	△	△	
13	14	13	

Each symbol represents a whole number.
The totals of each of the columns and two of the rows are shown.

Complete the missing row total.

Definition

Solving for the Unknown	The process of solving an equation for the specific value(s) of the variable representing the unknown.

Example of Solving for the Unknown (highlighted red):

$$x + 4 = 7 \quad \text{Identify the unknown.}$$
$$x + 4 - 4 = 7 - 4 \quad \text{Isolate the variable.}$$
$$x = 3 \quad \text{Solve for } x.$$

Q3) Find the value of the variable x in each of the following:

X − 4 = 12   X= ____

X + 51 = 103   X= ____

X − 12 = 17   X= ____

X + 32 = 68   X= ____

X + 19 = 37   X= ____

Q4) Answer the following.

If you were given the following expression

Y – 20

Find the value of the expression when Y = 50.

_____

If you were given the following expression

Y + 32

Find the value of the expression when Y = 4.

_____

If you were given the following expression

X + Y

Find the value of the expression when X= 34, Y = 20.

_____

Q5) (a) Pierre has some red balls and some white balls in a bag.

R represents the number of red balls.
W represents the number of white balls.

Write the value of W when   R + W = 16   **and**   R = 5

....

(b) Carlos has some green balls, some blue balls and some yellow balls in a different bag.

G represents the number of green balls.
B represents the number of blue balls.
Y represents the number of yellow balls.

Write the number of green balls in the bag when   B = Y   **and**   G = B + Y   **and**   B = 5

_____

Order of operations

order of operations

The **order of operations** is a rule that tells you the sequence to follow when you are performing operations in a mathematical expression.

I.	2.	3.		4.	
parentheses	exponents	multiplication	division	addition	subtraction

P E M or D A or S

| ( ) | y^x | x • | ÷ | + | − |

Do **P**, then **E**. Then do **M** or **D**, left to right. Lastly, do **A** or **S**, left to right.

Q1) Find the value of the following.

$72 - 10 \div 2 \times (3 \times 4) =$	$(5 \times 2) + (3 \times 6) =$
$16 \div 2 \times 7 =$	$6 \times 2 + 9 \div 3 =$
$(8 \div 2) + (1 \times 3) =$	$9 - 5 + 6 \div 3 =$

Q2) Find the value of the following.

14 + (8 x 7) + (5 x 6) =

$\Big($ _____ $\Big)$

2 x 12 + 25 x 4 – 24 =

_____

4 x (17 + 3) + 7 x 3 =

_____

0 x (15 – 7) + 20 x 5 =

_____

40 ÷ 8 x (10 – 3) =

_____

Q3) Work out

$$5^2 + 2^2 - 3 \; x \; 5 \; =$$

Q3) April 2023 P1

Calculate.

(a) 75 × 5 × 2 + 65

.... [1]

(b) 8 + (3 + 2) × 7

.... [1]

Q5) April 2023 p2

Samira writes,

35 − 20 ÷ 5 = 3

Samira has made an error.

Explain her error.

....

.... [1]

Q6)   (a) Here are three symbols.

| + | × | × |
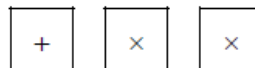
Write down the correct symbols to make the statement true.

5 ☐ (4 ☐ 3 ☐ 2) = 50

[1]

(b) Insert **one** pair of brackets to make the calculation correct.

7 + 5 × 1 + 3 − 4 = 23

[1]

Q7)

(a) Calculate.

2 × (4 + 1)

.... [1]

(b) Write one pair of brackets to make this calculation correct.

2 + 4 × 3 = 18

[1]