Contents

NAME: _____

Warm-Up Drill Sheet # 1

1a) Complete the following patterns.

i)  ____ ____ ____ ____

ii)  ____ ____ ____ ____ ____

iii) 26, 30, 34, _____, _____, _____

iv) 36, 29, 22, _____, _____, _____

v) 15, _____, 27, _____, 39, _____

vi) –3, –8, –13, _____, _____, _____

b) Evaluate each expression

Ex: Let a = 3 — 12 + a = 12 + 3 = 15

i) Let b = 4 — 17 – b =

ii) Let c = 7 — 7 × c =

iii) Let d = 5 — 9 – d – 2 =

iv) Let e = 2 — –8 ÷ e =

v) Let f = 0 — 14 × f =

c) Rewrite the following using the commutative property.

Ex: x + 5 = 5 + x

i) a + b _____

ii) y + 3 _____

d) Determine the missing members of the following number family.

10 + 2 = 12 _____

12 – 2 = 10 _____

Warm-Up Drill Sheet # 2

NAME: _____

4a) Evaluate each expression.

Ex: 2(2 + 3) = 2(5) = 2 × 5 = 10

i) 2(4 + 6) =

ii) 5 + 2 × 6 =

iii) 36 ÷ (4 + 2) =

iv) 20 + 16 – 9 + 10 =

b) Evaluate these expressions.

Ex: 6 – a, where a = 2
6 – 2 = 4

i) a + 4, where a = 6

ii) 25 ÷ b, where b = 5

iii) 12c, where c = 3

iv) a ÷ b, where a = 8 and b = 2

v) 2(c + d), where c = 5 and d = 3

c) Simplify the following expressions.

Ex: –4z + 5z = –4 + 5 = 1z

i) –2a + 3a – 2a =

ii) 17b – 3b =

iii) –5c – 3c – 1c =

iv) –s + 2s + 2 =

v) –7p + 4 – 3 + 6p =

Reflection

Collette can buy a soda for 0.75¢ and a bag of popcorn for 0.50¢ at the fall fair. If Collette can purchase **S** sodas and **P** bags of popcorn, then what is the meaning of the following equation?

S + P

NAME: _____

Timed Drill Sheet # 2

Minutes

3a) On the number line below, circle the number which indicates seven steps backward.

-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9

b) Solve the following.

i) 14 + 0 = _____

ii) 13 × 1 = _____

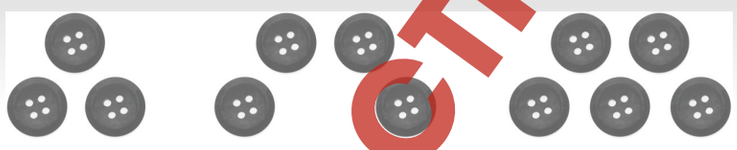
iii) 42 × 0 = _____

iv) 17 + 10 = _____

v) 12 ÷ 12 = _____

vi) 88 – 77 = _____

c) Consider the following pattern.



If the pattern continues in the same way, how many circles will be in the sixth term? Answer: _____

d) Write each of the following as an algebraic expression.

Ex: The sum of 2 and 6. 2 + 6

i) The difference of 12 and 10. _____

ii) ***a*** increased by 6. _____

iii) The product of ***b*** and 5. _____

e) Find each quotient. Ex: 6 ÷ 2 = 3

i) 12 ÷ 3 =

ii) –18 ÷ 6 =

iii) 15 ÷ –3 =

iv) 9 ÷ 3 =

Timed Drill Sheet # 8

NAME: _____

Minutes

12a) Which is equivalent to 3^3?

i. 81 ii. 27 iii. 63 iv. 9

b) Evaluate each using the values given.

i) $a^2 + b$; use ***a*** = 2 and ***b*** = 3

ii) 3c – 4d; use ***c*** = 4 and ***d*** = 2

iii) $e \div f^2$; use ***e*** = 18 and ***f*** = 3

iv) $7g^2 \times h$; use ***g*** = 3 and ***h*** = 1

c) Solve for ᵃ. i) $10^a = 100$ _____ ii) $6^a = 1296$ _____

d) Write an expression for *125 reduced by a.* _____

e) Write an expression for *the total of 66 and z.* _____

f) Write an expression for *420 less k.* _____

g) Rewrite using the commutative property.

i) 2y + 3z

ii) 4a + 2b

h) Solve the following equations.

i) 4^3

ii) 12^3

iii) 19^1

iv) 8^2

Explore With Technology

Use a calculator to complete the following. Keep in mind the proper order of operations!

7512 + 984 ÷ 8 × 17 – 108

Review Sheet NAME: _____

Review A

a) Continue the pattern shown in the chart below.

1	2	3	4	5	6	7	8	9	10
11	12	13	(14)	15	16	17	18	19	(20)
21	22	23	24	25	(26)	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

b) Continue the following patterns.

i) _____ _____ _____

ii) 15, 18, 21, ____, ____, ____

iii) 20, 25, 30, ____, ____, ____

iv) 9, 11, 13, 15 ____, ____, ____

v) 10, 20, 30, ____, ____, ____

c) Evaluate each expression

i) Let a = 4, 9 – a =

ii) Let b = 10, 21 + b =

iii) Let c = 5, 12 – 3 + c =

iv) Let d = 3, d × 3 =

v) Let e = 2, c + 3 – 2 =

vi) Let f = 7, f + f – 1 =

d) On the number line below, circle the number which shows five goals scored in a soccer game.

-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9

e) How would you show the following pattern using letters?

i. ABA ii. BAB iii. AAB iv. ABB

f) Determine the missing members of the following number family.

7 + 3 = 10, 3 + 7 = 10 _____ _____

NAME: _____ Review Sheet

Review B

a) Solve the following.

i) 20 – 6 = 12 + ____

ii) 11 + 7 = 8 + ____

iii) 50 – 10 = 19 + ____

iv) 50 – 35 = ____ + 10

b) Find each quotient.

i) 16 ÷ 4 =

ii) –15 ÷ 3 =

iii) 14 ÷ –7 =

c) On the number line below, circle a loss of $7.00.

-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9

d) Simplify these expressions.

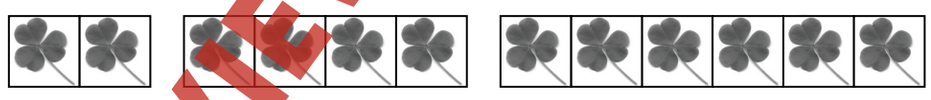
i) –3a + 6a =

ii) –5b + 9b – 12b =

iii) –2c + 4c + 3c =

iv) 43d – (–20d) =

e) Consider the following pattern.



If the pattern continues in the same way, how many clovers will be in the fifth term? Answer: _____

f) Write the next numbers in the following patterns.

i) 120, 126, 132, ____, ____

ii) –21, ____, –29, –33, ____

Review Sheet NAME: _____

Review C

a) Evaluate each expression.

i) 11 + 7 × 3 =

ii) 16 – 12 ÷ 3 =

iii) 10 × 6 ÷ 3 =

iv) 9(6 + 7) =

v) 11 + 2(7 – 3)² =

vi) (9 + 8 + 12 – 4) ÷ 5 =

b) Graph a ≤ 5 on the number line.

-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9

c) Solve for x.

i) 8 + (x + 4) = 24, x =

ii) x + 4² = 21, x =

iii) 12 ÷ x = 3, x =

iv) 2(6 – x) = 8, x =

d) If y = 4, solve these equations.

i) y + 12 =

ii) y(6 × 2) – 4² =

e) Write the missing numbers in the following patterns.

i) 99, 92, 85, ____, ____, 64

ii) –14, ____, –40, ____, ____

f) Write each as an algebraic expression.

i) Difference of 44 and 11 _____

ii) ***a*** increased by 22 _____

Plotting, Equations and Input-Output

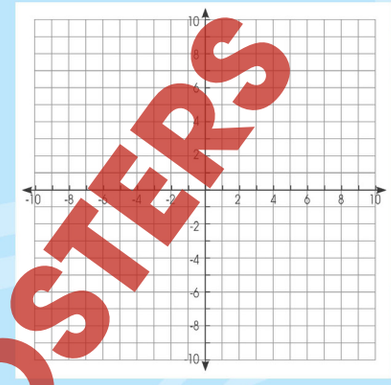
a) Plot the following coordinates on the accompanying grid:

A = (__, __)

B = (__, __)

C = (__, __)

D = (__, __)



b) Solve the following

i) ☐ × ☐ = ☐ ii) ☐ + ☐ = ☐ iii) ☐ – ☐ = ☐

c) Examine the input-output table shown below.

Input	Output

Which rule describes the data?

Answer: _____

NAME: _____

Timed Drill Sheet # 2

Minutes

3a) On the number line below, circle the number which indicates seven steps backward.

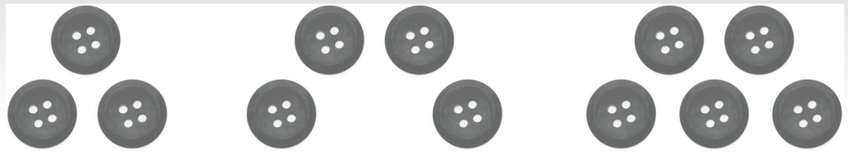
-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9

b) Solve the following.

i) 14 + 0 = _____ ii) 13 × 1 = _____ iii) 42 × 0 = _____

iv) 17 + 10 = _____ v) 12 ÷ 12 = _____ vi) 88 – 77 = _____

c) Consider the following pattern.



If the pattern continues in the same way, how many circles will be in the sixth term? Answer: _____

d) Write each of the following as an algebraic expression.

Ex: The sum of 2 and 6. 2 + 6

i) The difference of 12 and 10. _____

ii) ***a*** increased by 6. _____

iii) The product of ***b*** and 5. _____

e) Find each quotient. Ex: 6 ÷ 2 = 3

i) 12 ÷ 3 = ii) –18 ÷ 6 =

iii) 15 ÷ –3 = iv) 9 ÷ 3 =

EASY MARKING ANSWER KEY

3.

a)
–7 would be indicated.

b)
i) 14 ii) 13 iii) 0
iv) 27 v) 1 vi) 11

c)
8

d)
i) 12 – 10
ii) a + 6
iii) 5b or b × 5

e)
i) 4 ii) –3
iii) –5 iv) 3

9

4.

a)
i) 20 ii) 17
iii) 6 iv) 37

b)
i) 6 + 4 = 10
ii) 25 ÷ 5 = 5
iii) 12 × 3 = 36
iv) 8 ÷ 2 = 4
v) 2 (5 + 3) =
2 × 8 = 16

c)
i) –1a
ii) 14b iii) –9c
iv) 1s + 2 v) –1p +1

10

5.

a)
–6 would be indicated.

b)
77

c)
i) 1 ii) –11
iii) 8 iv) –1
v) –15 vi) 16

d)
i) b + a ii) c + 5

e)

f)
i) 18 ii) 56
iii) 12 iv) –4

11

6.

a)
Label 3 on the number line.

b)
i) a + (b + c)
ii) (de)f

c)
Answers will vary
(i.e. 6 + 4 = 10,
6 – 4 = 2)

d)
i) –2 ii) –3 iii) –5
iv) –6 v) 2 vi) 19

e)
i) a = 0

ii) a = 24 iii) a = 4
iv) a = 6 v) a = 8

12