

Ch.1 Pg 20-28 (Oct 24)

1. If n represents any term number, write a relation for the term.

| | | | | | | |
|-------------|----|----|----|----|----|----|
| Term Number | 1 | 2 | 3 | 4 | 5 | 6 |
| Term | 16 | 18 | 20 | 22 | 24 | 26 |

UP 2

UP 1

$2n$
 $2(1)$

$n=1$ out = 16
add 14

$2n + 14$

2. If n represents any term number, write a relation for the term.

| | | | | | | |
|-------------|---|----|----|----|----|----|
| Term Number | 1 | 2 | 3 | 4 | 5 | 6 |
| Term | 5 | 11 | 17 | 23 | 29 | 35 |

UP 6

$6n$
 $6(1)$

Check $n=1$ out = 5
subtract 1

$6n - 1$

Jim earns \$13 for each hour. Write a relation for his earnings if he works n hours.

Keyword → for each, for every, per, /
 goes with "n"
 $13n$

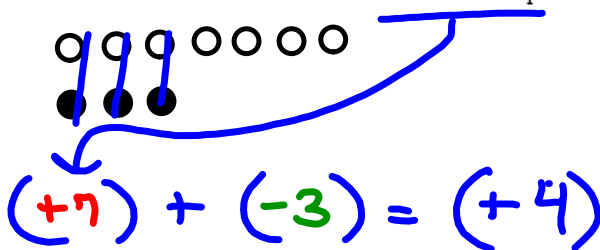
Complete the chart $5x - 3$

| | | | | | | |
|-----------|---|---|----|----|----|----|
| Input x | 1 | 2 | 3 | 4 | 5 | 6 |
| Output | 2 | 7 | 12 | 17 | 22 | 27 |

$x=1$ } $x=2$ } $x=3$
 $5(x) - 3$ } $5(2) - 3$ } $5(3) - 3$
 $5(1) - 3$ } $10 - 3$ } $15 - 3$
 $5 - 3$ } 7 } 12
 2

Pg 56-71

Let one white tile represent +1 and one black tile represent -1.
 What sum does this set of tiles model? Write the addition equation.



Ch. 2

Rules
 add \rightarrow ~~sign same~~
 add # part
 Keep same
 Sign
 \rightarrow Sign diff what
 diff... keep sign
 on larger
 Subtract \rightarrow Add opposit
 # \downarrow ()
 add \downarrow opp

Add the following integers

a) $(-9) + (+12)$

different
 (what's
 the diff)

$(+3)$

keep sign
 on larger # part

b) $(-15) + (-4)$

same
 add
 (-19)

c) $(-7) + (+1)$

difference
 $(7-1=6)$
 (-6)

Subtract the following \rightarrow add opposite $() - () =$
 \downarrow add \downarrow opp

a) $(-10) - (-6)$
 $(-10) + (+6)$
 \downarrow opp
 \swarrow diff \searrow
 (-4)

b) $(+14) - (-4)$
 $(+14) + (+4)$
 \downarrow opp
 $(+18)$

c) $(-5) - (+2)$
 $(-5) + (-2)$
 \downarrow opp
 \swarrow same \searrow
 (-7)

Add the following $6.12 + 1.4$

\rightarrow line up (.) decimals

$$\begin{array}{r}
 6.12 \\
 + 1.40 \\
 \hline
 7.52
 \end{array}$$

Subtract the following $11.473 - 0.56$

↳ line up (.)

$$\begin{array}{r} 11.473 \\ - 0.560 \\ \hline 10.913 \end{array}$$

Multiply 2.45×1.4

↳ don't line up (.) (Line up last digit)

$$\begin{array}{r} 2.45 \\ \times 1.4 \\ \hline 980 \\ 2450 \\ \hline 3.430 \end{array}$$

← 2# after .
← 1# after .

← 3# after . ($\frac{1+2}{=3}$)

Divide $17.23 \div 0.2$

$$0.2 \overline{) 17.23}$$

 \rightarrow

$$\begin{array}{r} 86.15 \\ 2 \overline{) 172.30} \\ \underline{-16} \\ 12 \\ \underline{-12} \\ 030 \\ \underline{-20} \\ 100 \\ \underline{-100} \\ 0 \end{array}$$

Grade 7 MATH Review for Provincial (ch 1 to 3).rtf

Name: _____

Day 1- Ch1 to 3 Review Grade 7

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. If n represents any term number, write a relation for the term.

| | | | | | | |
|-------------|---|---|----|----|----|----|
| Term Number | 1 | 2 | 3 | 4 | 5 | 6 |
| Term | 8 | 9 | 10 | 11 | 12 | 13 |

- a. $7n$ b. $n+2$ c. $n+8$ d. $n+7$

- _____ 2. If n represents any term number, write a relation for the term.

| | | | | | | |
|-------------|---|----|----|----|----|----|
| Term Number | 1 | 2 | 3 | 4 | 5 | 6 |
| Term | 5 | 10 | 15 | 20 | 25 | 30 |

- a. $5n$ b. $2n+5$ c. $2n$ d. $n+5$

- _____ 3. If n represents any term number, write a relation for the term.

| | | | | | | |
|-------------|----|----|----|----|----|----|
| Term Number | 10 | 11 | 12 | 13 | 14 | 15 |
| Term | 24 | 25 | 26 | 27 | 28 | 29 |

- a. $n+14$ b. $n+24$ c. $n+10$ d. $14n$

- _____ 4. There are n students in a class. Write a relation for the total number of crayons if each student is given 9 crayons.

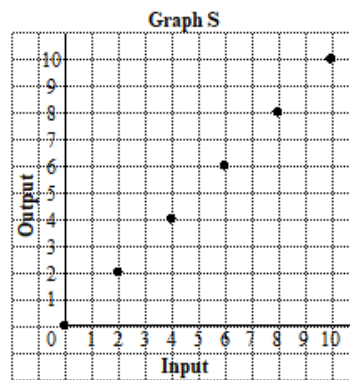
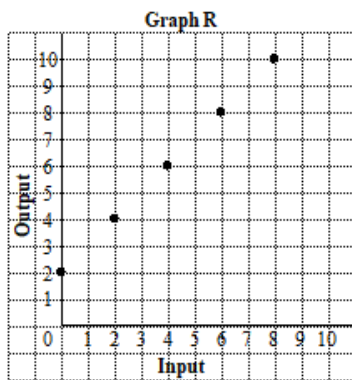
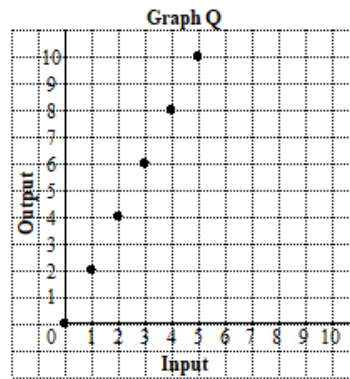
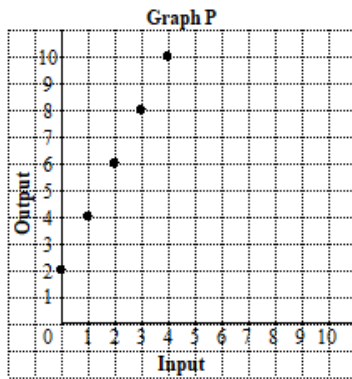
- a. $9n+9$ b. $n+9$ c. $\frac{n}{9}$ d. $9n$

- _____ 5. Brianna earns \$11 for each hour she works. Write a relation for her earnings if she works for n hours.
- a. $\$11n$ b. $\$(11n + 11)$ c. $\$(n + 11)$ d. $\$\frac{n}{11}$

- _____ 6. Complete the table.

| | | | | | | |
|--------------------|---|---|---|---|---|---|
| Input x | 1 | 2 | 3 | 4 | 5 | 6 |
| Output $6x + 1$ | | | | | | |

7. Which graph shows how $x + 2$ is related to x ?



- a. Graph R b. Graph Q c. Graph P d. Graph S

8. Write an equation for the sentence.

Five more than a number is 18.

- a. $n + 5 = 18$ b. $n - 5 = 18$ c. $5 - n = 18$ d. $5n = 18$

9. Write an equation for the sentence.

Three less than a number is 10.

- a. $\frac{n}{3} = 10$ b. $n - 3 = 10$ c. $n + 3 = 10$ d. $3 - n = 10$

10. Write an equation for the sentence.


A number divided by 4 is 6.

- a. $\frac{4}{n} = 6$ b. $n - 4 = 6$ c. $4 - n = 6$ d. $\frac{n}{4} = 6$

11. Write an equation for "I subtract 14 from a number. The answer is 21."

- a. $n - 14 = 21$ b. $n + 14 = 21$ c. $14 - n = 21$ d. $\frac{n}{14} = 21$

12. Write an equation for the sentence. Twenty-seven less than a number is 24.

- ___ 13. Write an equation for the situation.
Patricia has p posters. She sold 9 and has 20 left.
- | | | | |
|-----------------|-----------------|-----------------|-----------------|
| a. $p + 20 = 9$ | b. $p = 20 - 9$ | c. $p - 9 = 20$ | d. $p + 9 = 20$ |
|-----------------|-----------------|-----------------|-----------------|
- ___ 14. Write an equation for "I multiply a number by 3, then add 8. The answer is 17."
- | | | | |
|---------------|---------------|------------------|------------------|
| a. $24n = 17$ | b. $11n = 17$ | c. $8n + 3 = 17$ | d. $3n + 8 = 17$ |
|---------------|---------------|------------------|------------------|
- ___ 15. Let one white tile represent $+1$ and one black tile represent -1 .
What sum does this set of tiles model? Write the addition equation.
- 
- | | |
|-----------------------|-----------------------|
| a. $(+6) + (-2) = +4$ | c. $(+6) + (+2) = +6$ |
| b. $(+6) + (+2) = +8$ | d. $(-6) + (+2) = -4$ |
- ___ 16. Let one white tile represent $+1$ and one black tile represent -1 .
What sum is modelled by 19 positive tiles and 16 negative tiles?
- | | | | |
|----------|---------|---------|---------|
| a. $+35$ | b. -3 | c. $+4$ | d. $+3$ |
|----------|---------|---------|---------|
- ___ 17. Use coloured tiles to find the sum.
 $(-12) + (+5)$
- | | | | |
|----------|----------|---------|---------|
| a. -17 | b. $+17$ | c. $+7$ | d. -7 |
|----------|----------|---------|---------|
- ___ 18. Use coloured tiles to find the sum.
 $(+6) + (-4)$
- | | | | |
|---------|----------|----------|---------|
| a. $+2$ | b. $+10$ | c. -10 | d. -2 |
|---------|----------|----------|---------|

- ___ 25. No calculators. Find the product. 3.7×0.4
- ___ 26. Multiply. 7.79×0.07
- ___ 27. Each sash is 1.65 m long. How much ribbon is needed to make 19 sashes?
a. 2.065 m b. 3.135 m c. 31.35 m d. 20.65 m
- ___ 28. Divide. $1.98 \div 0.3$
- ___ 29. Divide. $65.28 \div 0.8$
a. 81.6 b. 0.816 c. 816 d. 8.16
- ___ 30. Evaluate.
 $7.2 \times 18 \div 6$

Short Answer

31. There are n players at a tennis camp. Write a relation for the number of tennis balls if each player is given 14 balls and there are 25 balls in reserve.
32. There are n students in a class. Each student is given 4 stickers and there are 11 stickers left.
- a) Write a relation for the total number of stickers.
- b) How many stickers are there if there are 18 students in the class?

33. Use algebra. Write a relation for the Input/Output table.

| | | | | | |
|-----------|---|---|---|----|----|
| Input x | 1 | 2 | 3 | 4 | 5 |
| Output | 5 | 7 | 9 | 11 | 13 |

34. Dominique has \$20 in his account and saves \$16 every week.
- Write a relation to show the amount he has in his account after w weeks.
 - How much does he have after 6 weeks?

35. Add.
 $(-6) + (-4)$

36. Evaluate $8.9 \times 12 - (8.8 - 3.4)$

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