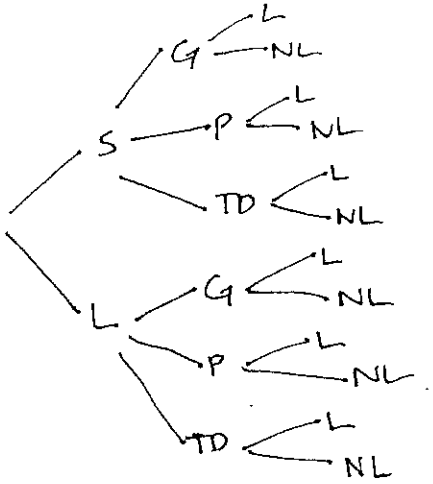
CHAPT. 5 INDIVIDUAL REVIEW (ANSWER KEY)

1 A shirt is sold with following options:

- Small or large
- Grey, Purple, Tie-Dye
- Logo or No logo

12

How many combinations are possible? Create a tree diagram.



2 Simplify

1) $-5x^2 - 2x - 3x + 2 - 8 - x^2$

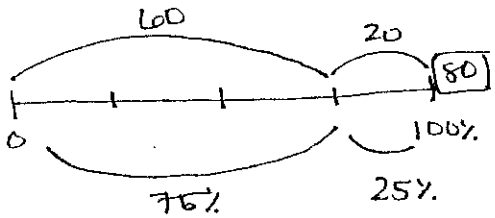
$-6x^2 - 5x - 6$

2) $-4x + (-2x^2) - 6x - 3x + 8$

$-2x^2 - 13x + 8$

3 Create a line diagram.

Jacob scored 75% on a math test. If he answered 60 questions correctly, how many questions were on the test?



4 What is 14% of 70?

$$\begin{array}{r} 2 \\ 14 \\ \times\ .7 \\ \hline 9.8 \end{array}$$

5 Is it proportional? How do you know?

a)

X	Y
2	4.9
7	15.8
9	17.4
4	9
1	2.4

×2 ×2 ≠

NO / CAN'T BE DOUBLED

b)

X	Y
2	5.5
3	8.5
9	24.5
4	11.5
1	2.75

SHOULD INCREASE BY 2.75

NO / NOT A CONSTANT RATE OF CHANGE

6 Simplify – show all of your work.

$-10 + 5(-12 + (-30) \div 5) - (-9)$

$-10 + 5(-12 + -6) - (-9)$

$-10 + 5(-18) + 9$

$-10 + -90 + 9$

$-100 + 9$

-91

7 Simplify

a) $5\frac{1}{4} - \left(-1\frac{2}{3}\right)$

b) $4\frac{1}{4} - 2\frac{1}{5}$

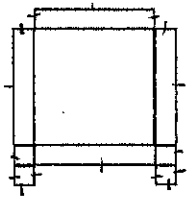
a) $\frac{21}{4} + \frac{5}{3} = \frac{63}{12} + \frac{20}{12}$

$\frac{83}{12} = 6\frac{11}{12}$

b) $\frac{17}{4} - \frac{11}{5} = \frac{85}{20} - \frac{44}{20}$

$\frac{41}{20} = 2\frac{1}{20}$

8 Find the area and perimeter of the tile diagram.



$P = 4x + 12$

$A = x^2 + 4x + 4$