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WORKSHEET 24

YEAR 09

SUBJECT: MATHEMATICS

NAME OF STUDENT:

STRAND	NUMBERS
SUB-STRAND	Directed Numbers
Content Learning	
Outcome	Explore and describe number system into different components and representations
	using examples from practical situations

Summary of Directed Numbers

1. Directed Numbers

Definitions

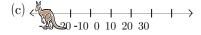
- Directed numbers have both magnitude (size) and direction.
- The direction of a positive number is "up" or "forward."
- The direction of a **negative number** is "down" or "backward".

Exercise:

Exercise 1 Use directed numbers to tell the distance of the kangaroo from zero:







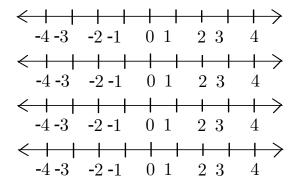
2. Integers

Definitions

- The set of natural numbers is the set of counting numbers.
- The set of whole numbers is the set of natural numbers, plus zero.
- The set of integers is the set of positive and negative whole numbers.

Exercise 2 Plot the following sets on a number line:

- (a) {3}
- (b) {0, 1, 2}
- (c) {0, -1, -2}
- (d) {-4, -2, 0, 2, 4}



3. Order on a Number Line

Definitions

- On a number line, larger numbers are on the right.
- > "greater than"
- < "less than"</p>
- ≥"greater or equal to"
- ≤"less than or equal to"

Exercise 3 Use < or > to make true statements:

- (a) 3 🗆 2
- (b) -2 □ 1
- (c) -1 □ -3
- (d) -3 □ -2
- (e) 4 □ -5
- (f) 0 □ -1