

**NEW DISCOVERING MATHEMATICS  
SECONDARY 1 (GRADE 7)  
NON-CALCULATOR PRACTICE**

Name: \_\_\_\_\_ ( ) Class: \_\_\_\_\_ Date: \_\_\_\_\_

**Chapter 2 – Real Numbers (Worksheet A)**

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**1** Draw a number line and represent each set of numbers below.

(a)  $2.2, \frac{12}{5}, -2.6, -2\frac{1}{2}$

(b)  $0.5, \pi, \sqrt{9}, \sqrt[4]{16}$

**2** Arrange the following numbers in ascending order.

$8.\dot{2}, 8\frac{1}{4}, 8.\dot{2}0\dot{3}, 8.215$

**3** Evaluate the following, leaving your answer in the simplest form.

(a)  $\frac{1}{4} + \frac{3}{7}$

(b)  $\frac{3}{4} - 1\frac{2}{5}$

(c)  $\frac{1}{2} + \frac{3}{7} - 2\frac{1}{4}$

(d)  $\frac{2}{3} \times \frac{6}{8}$

(e)  $\left(\frac{5}{6}\right)^2 \times 1\frac{3}{5}$

(f)  $1\frac{5}{8} \div \frac{1}{4}$

**4** Find the value of each of the following.

(a)  $1.57 + 3.29$

(b)  $92.3 - 73.5$

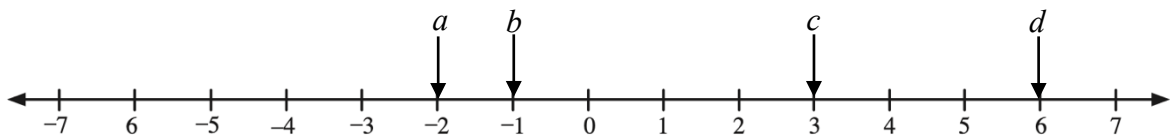
(c)  $5.3 \times 4.9$

(d)  $0.12 \times 38$

(e)  $11.2 \div 0.4$

(f)  $34 \div 0.25$

- 5 Convert the following recurring decimals into fractions.
- (a)  $0.\dot{4}$   
 (b)  $0.\dot{7}\dot{2}$
- 6 The freezing point of mercury is  $-38^{\circ}\text{C}$  and boiling point of mercury is  $357^{\circ}\text{C}$ .
- (a) Find the difference in temperature between the freezing point and boiling point of mercury.  
 (b) Find the midpoint temperature between the freezing point and boiling point of mercury.
- 7 A box has a mass of  $0.800\text{ kg}$ . A packet of nuts has a mass of  $450\text{ g}$ .  
 Find the total mass of a box which contains 30 packets of nuts.  
 Give your answer in kg.
- 8 The local time in Thailand is GMT+7 and the local time in New York is GMT-4.  
 Find the local time and date in Thailand when it is 23<sup>rd</sup> August 1530 hr in New York.
- 9 At a party,  $\frac{3}{5}$  of the people are adults, of which  $\frac{3}{8}$  of the adults are men and the rest are women. Given that there are 30 women at the party, find the total number of people at the party.
- 10 Four numbers  $a, b, c, d$  are shown on the number line.



Write down an operation involving two of the numbers such that

- (a) the difference is the greatest,  
 (b) the product is the smallest,  
 (c) the sum is closest to zero.