

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

Name: _____ () Class: _____ Date: _____

Chapter 2 – Real Numbers (Worksheet B)

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

(a) $5\frac{2}{3}$, 5.7, 2π , $\frac{20}{3}$

(b) $\frac{9}{2}$, π , 2^2 , $\sqrt{2}$

2 Arrange the following numbers in descending order.

$3.\dot{3}$, $3\frac{1}{3}$, 3.34, $\frac{11}{3}$

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

(a) $\frac{3}{4} + \frac{2}{3}$

(b) $1\frac{5}{6} - \frac{3}{5}$

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

(d) $3\frac{1}{3} \times 2\frac{2}{5}$

(e) $\left(\frac{2}{7}\right)^2 \times 14$

(f) $8\frac{2}{5} \div \frac{3}{10}$

4 Find the value of each of the following.

(a) $4.21 + 8.67$

(b) $47.8 - 39.2$

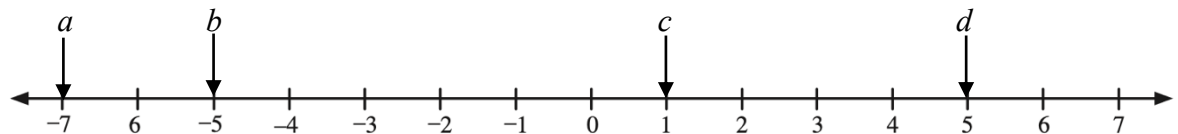
(c) 2.8×3.2

(d) 0.41×22

(e) $21.6 \div 0.3$

(f) $36 \div 0.45$

- 5 Convert the following recurring decimals into fractions.
- (a) $0.\dot{9}$
 (b) $0.\dot{4}\dot{5}$
- 6 The deepest lake in Indonesia is Lake Matano, with a dept of 590 m.
 The tallest mountain in Indonesia is Puncak Jaya, with a height of 4884 m.
- (a) Find the vertical different in height between Lake Matano and Puncak Jaya.
 (b) Find the midpoint height from ground level between Lake Matano and Puncak Jaya.
- 7 A box containing 32 packets of candy has a total mass of 13.94 kg.
 Given that the box has a mass of 500 g, find the mass of each packet of candy.
- 8 The local time in Singapore is GMT+8 and the local time in Los Angeles is GMT−8.
 Find the local time and date in Los Angeles when it is 11th June 1020 hrs in Singapore.
- 9 In a library, $\frac{3}{5}$ of the books are in the English language, of which $\frac{5}{8}$ are non-fiction books and the rest are fiction books. Find the fraction of books in the library which are English fiction books.
- 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 smallest,
 (b) the product is the greatest,
 (c) the sum is closest is to zero.