

GRADE 7-__ MATH
MIDYEAR REVIEW BOOKLET



STUDENT NAME: _____

DUE DATE: _____

EXAM DATE: _____

Grade 7 Math- Midterm Review

Chapter 2-Operations on Decimal Numbers

1) Place the decimal point in each answer without calculating.

- a. $75.83+37.9+28=14173$
- b. $\$9.14+\$6.99+\$0.49=\1662
- c. $\$335.61-\$240=\$9561$
- d. $627-580.9=461$

2) Calculate

- a. $46.1+5.7$
- b. $87.49-6.7$
- c. $\$113.99+\$25.80+\$23$
- d. $27.689-15.471$

3) A steel bar is cut into 3 pieces with lengths 36.42 cm, 42.61 cm and 13.2 cm. How long was the bar?

4) Without calculating the answer, place the decimal point in the correct position.

- a. $6.8 \times 12.2 = 8296$
- b. $48.6 \times 0.9 = 4374$

5) Calculate

a.
$$\begin{array}{r} 1.75 \\ \times 3 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 13.8 \\ \times 2.5 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 270 \\ \times 0.1 \\ \hline \end{array}$$

6) A German Shepherd has a mass of 40 kg. A Great Dane has a mass 1.8 times that amount. What is the mass of the Great Dane?

7) Without calculating the answer, place the decimal point in the correct position.

- a. $36.72 \div 30 = 1224$
- b. $64.8 \div 0.8 = 810$

Calculate

a. $22.5 \div 6$

b. $4.56 \div 0.8$

c. $3.5 \div 0.5$

9) If 5 juice boxes cost \$1.70, how much does one juice box cost?

10) What is the value of each expression?

a. $2.4 - 0.6 \div 2 + 0.3 \times 2$

b. $85 \div (1.3 + 7.2) + 4.1 \times 3$

11) Rewrite the statement using brackets to make a true statement.

$$7.5 + 8.6 \times 9.1 = 146.51$$

12) A Clover Bar drama group is putting on a production of Legally Blonde. Ticket prices are:

Adults: \$12.50

Seniors: \$8.25

Students: \$6.25

If 80 adults, 30 seniors and 50 students attend the first performance, how much admission is collected?

Chapter 4-Fractions, Decimals, and Percents

1) What is 50% of each quantity?

a. 134 marbles

b. \$74.80

2) What is 25% of each quantity?

a. 68 flowers

b. 42 min

3) What is 10% of each quantity?

a. 34 cm

b. \$89.50

4) Find each amount mentally?

a. 75% of 44

b. 35% of 240

5) Change each percent to a decimal number.

a. 38%

b. 67%

6) Write the following numbers in descending order.

$\frac{1}{2}$, 45%, 0.54

7) According to an article in the newspaper, 35% of Sherwood Park residents like winter. If the population of Sherwood Park is 80 000, how many people like winter?

8) Use a calculator to change each fraction to a decimal number. Round to the place value indicated.

a. $\frac{13}{25}$ (tenths)

b. $\frac{197}{289}$ (thousandths)

9) Write each repeating decimal number using bar notation.

a. 0.5555...

b. 2.0151515...

J) Change each fraction to a repeating decimal. Then use bar notation to show the repeating part.

a. $\frac{5}{6}$

b. $\frac{45}{99}$

11) Estimate each of the following as a percent.

a. 36 out of 70

b. 125 out of 300

12) Change each decimal number to a fraction in lowest terms.

a. 0.95

b. 0.08

13) There are 81 girls and 59 boys in Sherwood Park Day Care. Estimate the percent of the children in the day care that are girls.

14) Naomi is the manager of a restaurant in Yellowknife. Her annual salary is \$40 091.00. After a performance review her boss awards her a pay raise of 8.5%.

a. What is the amount of her salary increase?

b. What is her new annual salary?

Chapter 6/7-Fraction Operations

1) Use divisibility rules to list the factors of the following numbers:

a. 36

b. 28

2) What are the common factors for each pair of numbers?

a. 4 and 12

b. 24 and 15

3) Write each fraction in lowest terms.

a. $\frac{12}{16}$

b. $\frac{12}{15}$

4) Determine the sum of each fraction statement. Write each answer in lowest terms.

a. $\frac{1}{7} + \frac{2}{7}$

b. $\frac{4}{9} + \frac{3}{9}$

c. $\frac{3}{5} + \frac{2}{5}$

5) Determine the difference. Write your answer in lowest terms.

a. $\frac{5}{12} - \frac{1}{12}$

b. $\frac{4}{9} - \frac{2}{9}$

c. $\frac{7}{8} - \frac{3}{8}$

6) Determine a common denominator for each set of fractions. Then use the common denominator to write equivalent fractions.

a. $\frac{1}{6}$ and $\frac{1}{4}$

b. $\frac{1}{5}$, $\frac{2}{3}$ and $\frac{7}{10}$

7) Determine the sum. Write your answers in lowest terms.

a. $\frac{1}{2} + \frac{3}{8}$

b. $\frac{2}{5} + \frac{1}{2}$

c. $\frac{1}{6} + \frac{3}{4}$

8) Determine the difference. Write your answers in lowest terms.

a. $\frac{3}{4} - \frac{1}{8}$

b. $\frac{2}{3} - \frac{1}{2}$

c. $\frac{1}{6} - \frac{1}{9}$

9) Determine the sum. Write your answers in lowest terms.

a. $3\frac{1}{8} + 1\frac{5}{8}$

b. $1\frac{1}{5} + 5\frac{1}{4}$

c. $6\frac{1}{2} + \frac{9}{10}$

9) Jenny studied $1\frac{1}{3}$ hours for her math test and $\frac{3}{4}$ h for her science test. How long did she study in total?

11) Determine the difference. Write your answers in lowest terms.

a. $1\frac{2}{5} - 1\frac{1}{5}$

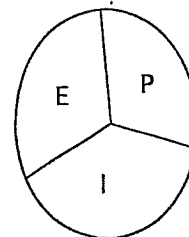
b. $7\frac{7}{15} - 3\frac{1}{6}$

c. $2\frac{3}{14} - \frac{6}{7}$

12) A pie recipe calls for $3\frac{1}{2}$ packages of Saskatoon berries. Julia has $1\frac{1}{3}$ packages. How much more does she need?

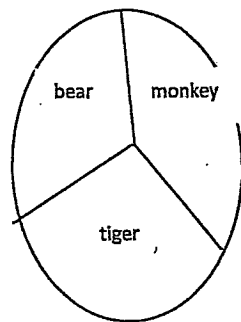
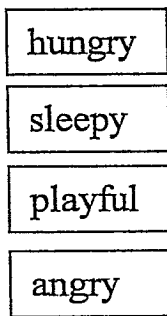
Chapter 5-Probability

- 1) What is the definition of probability?
- 2) What is an outcome?
- 3) What is a sample space?
- 4) A spinner with three equal sections is spun once.



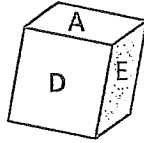
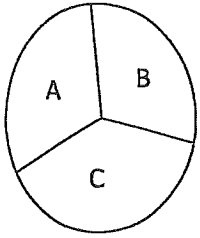
- a. How many outcomes are possible?
- b. What is the probability of spinning a vowel? Express your answer as a fraction, a ratio and a percent.

5) Jeremy chooses a tile and spins the spinner.



- a. Organize the outcomes of these two events in a table.
 - b. What is the sample space for this experiment?
- 6) Alan flips a coin and chooses one of three marbles: black (B), yellow (Y) and red (R)
- a. Draw a tree diagram to organize the outcomes of these two events.
 - b. What is the sample space for this experiment?
- 7) Joey randomly picks a marble from a bag containing one red, one green, one yellow, one purple, and one black marble and spins a spinner with five equal sections labeled 1, 2, 3, 4, and 5.
- a. Create a table to organize the outcomes for these two events.
 - b. What is $P(\text{green}, 1)$?
 - c. What is $P(\text{yellow}, 2 \text{ or } 3)$?
 - d. What is the probability of selecting a green marble and spinning a number that is less than 4?

8) Margot spins the spinner and rolls the cube labeled A, B, C, D, E, F.



a. Create a tree diagram to organize the sample space.

b. What is the probability of spinning an A and rolling an A?

c. What is the probability of spinning and rolling the same letter?

9) What is the difference between theoretical and experimental probability?

10) A spinner with 4 equal regions labeled A, B, C, and D is spun 20 times. The following tally chart shows the experimental outcomes. Write any probabilities in fraction form.

A	B	C	D

a. From the tally chart, what is the experimental probability of spinning C?

b. What is the theoretical probability of spinning C?

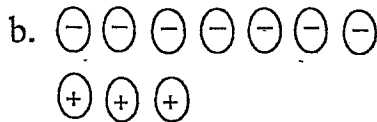
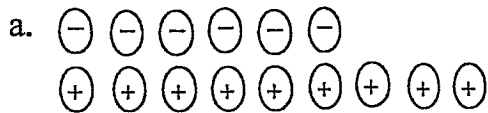
c. Explain why the answers for a) and b) are not the same.

Chapter 9-Add & Subtract Integers

1) What is a zero pair?

2) What is an opposite integer?

3) What integer statement does each diagram represent?



4) Find the sum.

a. $4 + ^{-}2$

b. $3 + 5$

c. $^{-}3 + ^{-}2$

d. $^{-}5 + 3$

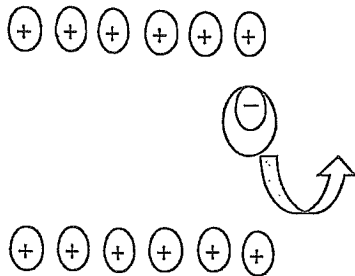
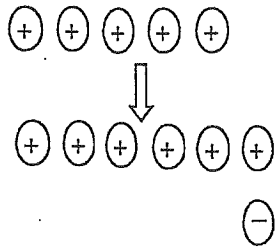
e. $2 + ^{-}4 + 3$

f. $^{-}3 + ^{-}4 + 2 + ^{-}5$

5) What integer is 8 more than its opposite?

6) What is the 3- word rule we use for subtraction of integers?

What subtraction statement does the diagram represent?



8) Determine each difference.

a. $6 - 4$

b. $-3 - 2$

c. $-4 - -8$

9) The lowest temperature recorded in Canada was -63°C at Snag, Yukon Territory. The highest temperature recorded in Canada was 45°C at Midale, Saskatchewan. What is the difference between these temperatures?

10) Mauna Kea is a mountain in Hawaii. The base of the mountain is 6033m below the surface of the ocean. The mountain peak is 4170m above the surface of the ocean. Calculate the height of the mountain.

