EOT-2 Exam Coverage – Grade 5 General With Answers

Mathematics

Al Asayel School C2

	Y			
	Exam I	Pattern	11111	
Number of Main Questions	Part (1) - 10	****Number of Bonus Questions	2	
مدد الأستلة الأساسية	Part (2) - 10 Part (3) - 3			
Marks per Main Question الدرجات لکار سال أسامه،	Part (1) - 3 Part (2) - 5	Marks per Bonus Question الدرجات لکل سؤال إضافی	5	
	Part (3) - <mark>(6-8)</mark>	ددة الإمتحان - Exam Duration	120 minutes	
••• Type of All Questions نوع كافة الأسئلة	Part(1 and 2) MCQ Part (3) FRQ	طريقة الطبيق- Mode of Implementation	SwiftAssess & Paper-Based	
		Calculator	Not Allowed	
• الدرجة القصوي السكنة	110	الآلة الحاسبة	غير مسموحة	

Learning Outcome : Use place-value patterns to divide a decimal by a power Page No: 5 Exercise (3-8) of 10 What is the quotient? **3.** $91.4 \div 0.1 = 914$ 4. 55.8 \div 0.01 = 5,580 332 5,050 5. $50.5 \div 0.01 =$ 6. $33.2 \div 0.1 =$ 1.64 4.448 7. $16.4 \div 10 =$ 8. $444.8 \div 100 =$

Learning Outcome : Estimate quotients of decimals to determine if calculations are reasonable

Estimate the quotient.

1. 4.42 ÷ 0.81 =
$$x$$

 $40 \div 8 = 5$

2. $36.8 \div 5.7 = d$

35÷ **5** = **7**



21÷ 3 = 7

4. $5.4 \div 0.25 = m$

54÷3 = 18





7.	$4.2 \div 0.96 = b$	8. $13.2 \div 7.4 = p$
	A. 43.75	A. 1.7
	B. 33.75	B. 10.7
	C. 4.3	C. 17.2
	D. 0.43	D. 170.3

Learning Outcome : Use place-value understanding and to divide a decimal by a whole number	equivalent representations	Page No: 17 Exercise 3 – 10
What is the quotient?		
3. 0.24 ÷ 8 = 0.03	4. 0.63 ÷ 9 =	0.07
5. 0.96 ÷ 6 = 0.16	6. 0.84 ÷ 4 =	0.21
7. 1.26 ÷ 7 = 0.18	8. 2.25 ÷ 5 =	0.45
9. 3.18 ÷ 3 = 1.06	10. 4.52 ÷ 4 =	1.13

Learning Outcome: Use benchmark numbers to estimate the sums and differences of fractions

Will the sum be greater than 1 or less than ? Use the numer line and explain how you can use benchmark numbers to justify .



Learning Outcome: Use benchmark numbers to estimate the sums and differences of fractions

Page No: 41 Exercise 1–2





Learning Outcome: Explain how to add fractions with unlike denominators (1-4) 49

Which multiple can you use as a like denominator to add the fractions ? Choose all correct answers .



Complete the equation using addends with like denominators.

3.
$$\frac{3}{5} + \frac{1}{4} = \frac{12}{20} + \frac{5}{20}$$
 4. $\frac{2}{3} + \frac{1}{6} = \frac{4}{6} + \frac{1}{6}$

8

3

4

Complete the equation with Equivalent fractions that have like denominators $\frac{3}{6} =$ Ζ $\frac{4}{6} - \frac{3}{6}$ $\frac{1}{2} = \frac{5}{8} - \frac{4}{8}$ 3 R <u>10</u><u>3</u> 12 3 6 4 12 12 12





9.Complete the equation.

$$\frac{1}{8} \times \frac{1}{3} = \frac{1}{24}$$





Q2) $1\frac{3}{4} \times 4$ 4 4 12 3 4 4

= 4 + 3 = 7

$$= 1 + \frac{1}{3} + \frac{1}{2} + \frac{1}{6} = 2$$

What is the quotient? Use decimal grids to solve.

1. $3.5 \div 7 = 0.5$ 2. $4.53 \div 3 = 1.51$

3. $2.04 \div 4 = 0.51$ 4. $2.8 \div 2 = 1.4$

5. $3.9 \div 3 = 1.3$ 6. $6.9 \div 3 = 2.3$

7. $0.72 \div 8 = 0.09$ 8. $2.4 \div 4 = 0.6$

Learning Outcome: Represent division of decimals by whole numbers using equal sharing or equal grouping

5. Use the decimals grade to solve 2.4 ÷ 6 = d

0.4

2.4 ÷6 =



Learning Outcome: Write an equivalent equation containing whole numbers to solve a division equation

Page No: 25 Exercise 1-4

Rewrite the equation using multiplication by powers of 10. Then, use partial quotients to solve.

 1. $10.8 \div 1.2 = \frac{9}{2}$ 2. $5.18 \div 0.74 = \frac{7}{518 \div 74}$
 $108 \div 12$ $518 \div 74$

3. $27.6 \div 4.6 = \frac{6}{4.}$ **4.** $11.2 \div 1.6 = \frac{7}{112 \div 16}$

Learning Outcome: Write an equivalent equation containing whole numbers to solve a division equation

Page No: 31 Exercise 14

14. Which equivalent expression uses power of 10 to help you solve 52.71 ÷ 0.21 ?

B. 5,271 ÷ 0.21

C. 52.71 ÷ 21

D. 52.71 ÷ 2.1

10. Eddie had $\frac{3}{4}$ quart of water for his soccer game . By half time , he drank $\frac{2}{5}$ quart of water . How much water dose Eddie have left?

 $\frac{3}{4} - \frac{2}{5} = \frac{15}{20} - \frac{8}{20} = \frac{7}{20}$ quarts



Page No: 58 Exercise 10-12

11. Isabel bought this sandwich .She ate $\frac{5}{8}$ foot of the sandwich .How much of the sandwich is left .

$$\frac{7}{10} - \frac{5}{8} = \frac{28}{40} - \frac{25}{40} = \frac{3}{40} \text{ foot}$$



12. Alan is walking on a path that is $\frac{11}{12}$ mile long. He has walked $\frac{7}{9}$ mile how much farther does he have to walk? $\frac{11}{12} - \frac{7}{9} = \frac{33}{36} - \frac{28}{36} = \frac{5}{36}$ mile

Learning Outcome: Subtract fractions with unlike denominators

10. Timothy rides his bike $1\frac{1}{2}$ miles to school. After school, he rides $2\frac{2}{5}$ miles to his piano lesson, then 2 miles back home. How many miles does Timothy ride in all? $1\frac{1}{2} + 2\frac{2}{5} + 2 = 1+2+2+\frac{1}{2} + \frac{2}{5} = 5\frac{9}{10}$ miles

11. Marcus builds the body of this snowman. He then builds the head. How tall is Marcus's snowman?

$$3\frac{2}{3}+1\frac{1}{8}=3+1+\frac{2}{3}+\frac{1}{8}=4+\frac{19}{24}=4\frac{19}{24}ft$$



12. Solve the equation.

$$4\frac{7}{10} + 2\frac{3}{4} = ?$$

What do you notice about the sum of the two fractions? How can you rewrite the sum?

$$4 + \frac{7}{10} + 2 + \frac{3}{4} = 6 + \frac{14}{20} + \frac{15}{20} = 6 + \frac{29}{20} = 6 + \frac{20}{20} + \frac{9}{20} = 7\frac{9}{20}$$

What is the difference? Choose the correct answer.

1.
$$3\frac{2}{3} - 1\frac{1}{5} = ?$$

A. $2\frac{7}{15}$
B. $2\frac{1}{5}$
C. $2\frac{1}{15}$
D. $2\frac{1}{3}$

2.
$$6\frac{7}{8} - 5\frac{5}{6} = ?$$

A. $1\frac{5}{24}$
B. $1\frac{1}{24}$
C. $1\frac{4}{24}$
D. $1\frac{2}{24}$

Learning Outcome: Subtract mixed numbers with unlike denominators

 Page No:65 Exercise 1-8

 What is the difference .

 Q3)
$$4\frac{3}{4} - 1\frac{1}{3}$$
 $3\frac{5}{12}$
 Q4) $2\frac{3}{5} - 1\frac{1}{2}$
 $1\frac{1}{10}$

 Q5) $5\frac{5}{9} - 3\frac{1}{6}$
 $2\frac{7}{18}$
 Q6) $3\frac{7}{10} - 1\frac{3}{8}$
 $2\frac{13}{40}$

 Q7) $6\frac{1}{2} - 3\frac{1}{3}$
 $3\frac{1}{6}$
 Q8) $4\frac{5}{8} - 3\frac{1}{5}$
 $1\frac{17}{40}$

Learning Outcome : Add and subtract mixed numbers with regrouping			Page No:69 Exercise 1-8
What is the sum or difference? Choose the correct answer.			
1. $5\frac{2}{5} - 3\frac{2}{3} = ?$	2.	4-5	$\frac{5}{5} + 3\frac{3}{4} = ?$
A. $2\frac{11}{15}$		Α.	$7\frac{8}{12}$
B. $1\frac{1}{5}$		В.	$7\frac{7}{12}$
C. $2\frac{3}{5}$		C.	$8\frac{7}{12}$
D. $1\frac{11}{15}$		D.	8 <u>8</u> 12





The area model represents what product ?

A.
$$\frac{1}{4} \times \frac{3}{5}$$

B. $\frac{1}{6} \times \frac{3}{4}$
C. $\frac{1}{4} \times \frac{5}{6}$
D. $\frac{4}{5} \times \frac{5}{6}$

Learning Outcome: Find the area of a rectangle with fractional side lengths by multiplying the side lengths

Page No: 103 Exercise 5-6

5. What is the area of a square with side lengths of $\frac{1}{3}$ inch?

 $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9} Square inch$

6. A piece of paper is $1\frac{1}{4}$

inches long and 2 inches wide . what is the area of the pices of paper

$$2 \times 1 \frac{1}{4} = 2 \frac{2}{4} \text{ or } 2 \frac{1}{2} \text{ Square inches}$$

7. STEM Connection A geologist is surveying land that is $\frac{3}{4}$ mile wide by $\frac{7}{8}$ mile long. What is the area of the land the geologist is surveying? 7 21 $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$ Square miles 8. The top of a table measures $1\frac{3}{4}$ feet by 2 feet. What is the area of the tabletop? $2 \times 1\frac{3}{4} = 2 + \frac{6}{4} = 2 + \frac{4}{4} + \frac{2}{4} = 3\frac{2}{4}$ or $3\frac{1}{2}$ Square feet **Learning Outcome:** Find the area of a rectangle with fractional side lengths by multiplying the side lengths

9. A farmer plants crops in a section that is $\frac{4}{5}$ -mile long by $\frac{9}{10}$ -mile wide. What is the area of the section?

$$\frac{4}{5} \times \frac{9}{10} = \frac{36}{50} \text{ or } \frac{18}{25} \text{ Square miles}$$

9. The weight of Natalie's backpack is shown. Her brother's backpack weighs $2\frac{1}{4}$ times that much. How much does Natalie's brother's backpack weigh? $2\frac{1}{4} \times 6\frac{2}{3} = 12 + \frac{4}{3} + \frac{6}{4} + \frac{2}{12} = 15 \text{ pounds}$ $6\frac{2}{3}$ lb **10.** The street Michelle lives on is $1\frac{1}{2}$ miles long. The street Lucas lives on is $1\frac{2}{5}$ times as long as Michelle's street. How long is the street Lucas lives on? $1\frac{1}{2} \times 1\frac{2}{5} = 1 + \frac{2}{5} + \frac{1}{2} + \frac{2}{10} = 2\frac{1}{10} \text{ miles}$

11. Benson bought this much dog food last week. This week he bought $2\frac{1}{3}$ times as much as last week. How many

pounds of dog food did Benson buy this week?

$$2\frac{1}{3} \times 3\frac{1}{2} = 6 + \frac{2}{2} + \frac{3}{3} + \frac{1}{6} = 8\frac{1}{6}pounds$$

Learning Outcome: Multiply mixed numbers by writing the mixed numbers as fractions and then multiplying fractions

Page No:112 Exercise 11-12



Learning Outcome: Explain how the size of the factors impacts the size of the product without performing the multiplication

Which fraction will result in a 2. Which fraction will result in a product that is greater than $\frac{3}{4}$? $\frac{3}{4}$ × Α. -\ \ \ Β. 5 8 C.

product that is less than $\frac{8}{7}$? $\frac{8}{7}$ × <u>12</u> 6 Β. 10 C. 8 D.

Learning Outcome: Explain how the size of the factors impacts the size of the product without performing the multiplication

Which expression has a product that is less than the first factor? Select all that apply. $42 \times \frac{1}{2}$ Α. **B.** $35 \times \frac{2}{1}$ $78 \times \frac{1}{5}$ **D.** $26 \times \frac{4}{5}$

Which expression has a product that is greater than the second factor? Select all that apply. **A.** $\frac{3}{4} \times \frac{2}{1}$ **B.** $\frac{2}{1} \times 75$ $26 \times \frac{3}{2}$ C. **D.** $\frac{9}{10} \times 5$

Solve each problem. Then, explain your solution.

 Darren has a cooler with 9 liters of lemonade. He pours 0.3 liter of lemonade into each glass. How many glasses of lemonade can Darren fill

 $9 \div 0.3 = 90 \div 3 = 30 \ glasses$

 Mr. Ramirez bought a watermelon that weighs 12 pounds for a picnic. He cuts it into pieces that each weigh 1.5 pounds. How many pieces of watermelon can Mr. Ramirez cut?

12÷ **1**. **5** = **120** ÷ **15** = **8** pieces

Solve each problem. Then, explain your solution.

7. A grocery store got a delivery of 24 pounds of almonds. They package the almonds into containers with 0.75 pound of almonds in each. How many containers can they fill with almond ?

$24 \div 0.75 = 2400 \div 75 = 32$

 Melissa has \$30 to spend on apples from a local apple orchard. How many pounds of apples can Melissa buy?

```
30 \div 1.25 = 3000 \div 125 = 24
```



10. A car drove 104 miles in 1.6 hours. If the speed of the car was the same for the entire trip, how fast did the car go? How do you know?

```
104 \div 1.6 = 1040 \div 16 = 65
```

10. Oliver uses $\frac{1}{6}$ gallon of water for his outdoor plants. He uses $\frac{1}{4}$ gallon of water for his indoor plants. How many gallons of water does Oliver use on all of his plants?

$$\frac{1}{6} + \frac{1}{4} = \frac{2}{12} + \frac{3}{12} = \frac{5}{12}$$
 gallons

11. Heather uses $\frac{2}{3}$ foot of yarn for her art project. She adds another $\frac{1}{12}$ foot to complete the project. How much yarn does Heather use in all?

$$\frac{2}{3} + \frac{1}{12} = \frac{8}{12} + \frac{1}{12} = \frac{9}{12} \text{ or } \frac{3}{4} \text{ foot}$$

Page No: 50 Exercise 10-12

12. Error Analysis Mia found the sum of $\frac{2}{9} + \frac{3}{4}$.

How can you help Mia correct her mistake?

 $\frac{2 \times 2}{2 \times 9} + \frac{3 \times 4}{4 \times 4} = \frac{4}{18} + \frac{12}{18} =$ 16 18

 $\frac{2 \times 4}{9 \times 4} + \frac{3 \times 9}{4 \times 9} = \frac{8}{36} + \frac{27}{36} = \frac{35}{36}$

What is the product ?Use an area model to solve

$$Q3) 1\frac{1}{4} \times 1\frac{1}{5}$$

$$Q4) \frac{3}{5} \times 4\frac{1}{2}$$

$$1 + \frac{1}{4} + \frac{1}{5} + \frac{1}{20} = 1\frac{1}{2}$$

$$Q4) \frac{3}{5} \times 4\frac{1}{2}$$

$$\frac{12}{5} + \frac{3}{10} = \frac{24}{10} + \frac{3}{10} = \frac{27}{10} = 2\frac{7}{10}$$

$$Q5) 3\frac{1}{3} \times 1\frac{1}{2}$$

$$Q4) 2\frac{1}{4} \times 2\frac{2}{3}$$

$$4 + \frac{2}{4} + \frac{4}{3} + \frac{2}{12} = 6$$