

شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



## حل تجميعة أسئلة وفق الهيكل الوزاري

[موقع المناهج](#) ← [المناهج الإماراتية](#) ← [الصف الخامس](#) ← [رياضيات](#) ← [الفصل الثاني](#) ← [الملف](#)

## التواصل الاجتماعي بحسب الصف الخامس



## روابط مواد الصف الخامس على تلغرام

[الرياضيات](#)

[اللغة الانجليزية](#)

[اللغة العربية](#)

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## المزيد من الملفات بحسب الصف الخامس والمادة رياضيات في الفصل الثاني

<a href="#">أسئلة الامتحان النهائي - بريدج</a>	1
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# Mathematics

EOT-2 Exam Coverage –

Grade 5 General

With **Answers**

Al Asayel School C2

$$\frac{1}{2}x + \frac{1}{3}y = z$$

$$+ z^2 = x - 1$$

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$x - 3y + z = 57$   
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# Exam Pattern

Number of Main Questions عدد الأسئلة الأساسية	Part (1) - 10	****Number of Bonus Questions عدد الأسئلة الإضافية	2
	Part (2) - 10		
	Part (3) - 3		
Marks per Main Question الدرجات لكل سؤال أساسي	Part (1) - 3	Marks per Bonus Question الدرجات لكل سؤال إضافي	5
	Part (2) - 5		
	Part (3) - (6-8)		
*** Type of All Questions نوع كافة الأسئلة	Part( 1 and 2) MCQ	Exam Duration - مدة الامتحان	120 minutes
	Part (3) FRQ		Mode of Implementation - طريقة التطبيق
* Maximum Overall Grade *الدرجة القصوى الممكنة	110	Calculator	Not Allowed
		آلة الحاسبة	غير مسموحة

**What is the quotient?**

3.  $91.4 \div 0.1 =$  914

4.  $55.8 \div 0.01 =$  5,580

5.  $50.5 \div 0.01 =$  5,050

6.  $33.2 \div 0.1 =$  332

7.  $16.4 \div 10 =$  1.64

8.  $444.8 \div 100 =$  4.448

## Estimate the quotient.

1.  $4.42 \div 0.81 = x$

$40 \div 8 = 5$

2.  $36.8 \div 5.7 = d$

$35 \div 5 = 7$

3.  $19.73 \div 3.21 = c$

$21 \div 3 = 7$

4.  $5.4 \div 0.25 = m$

$54 \div 3 = 18$

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**Which is a reasonable calculated quotient for each expression?**

**5.**  $7.78 \div 0.84 = d$

**A.** 92

**B.** 9.2

**C.** 0.92

**D.** 1.92

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**7.**  $4.2 \div 0.96 = b$

**A.** 43.75

**B.** 33.75

**C.** 4.3

**D.** 0.43

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**6.**  $23.4 \div 3.2 = s$

**A.** 7.3

**B.** 73.3

**C.** 70.3

**D.** 780.3

**8.**  $13.2 \div 7.4 = p$

**A.** 1.7

**B.** 10.7

**C.** 17.2

**D.** 170.3

**What is the quotient?**

3.  $0.24 \div 8 = \underline{0.03}$

4.  $0.63 \div 9 = \underline{0.07}$

5.  $0.96 \div 6 = \underline{0.16}$

6.  $0.84 \div 4 = \underline{0.21}$

7.  $1.26 \div 7 = \underline{0.18}$

8.  $2.25 \div 5 = \underline{0.45}$

9.  $3.18 \div 3 = \underline{1.06}$

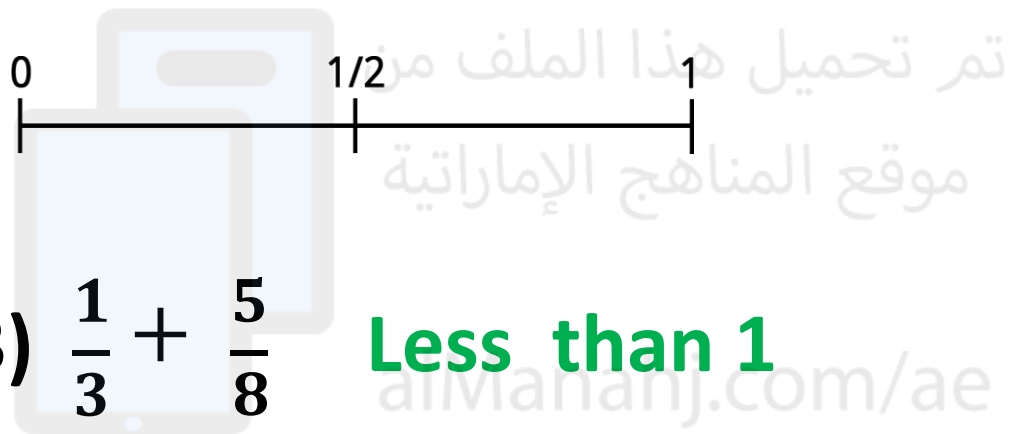
10.  $4.52 \div 4 = \underline{1.13}$

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

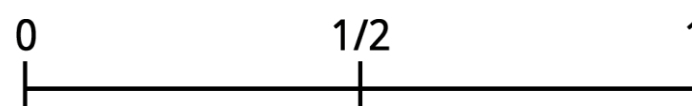
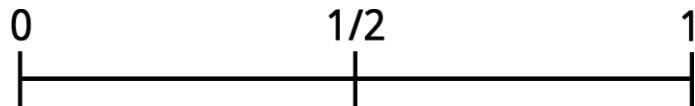
**Q1)**  $\frac{3}{4} + \frac{2}{3}$  **Greater than 1**

**Q2)**  $\frac{3}{5} + \frac{1}{4}$  **Less than 1**



**Q3)**  $\frac{1}{3} + \frac{5}{8}$  **Less than 1**

**Q4)**  $\frac{3}{10} + \frac{4}{5}$  **Greater than 1**





**Without actually calculating . Use what you know about fractions to estimate the sum**

1.  $\frac{1}{7} + \frac{1}{9}$

**Circle the best estimate**

- a.  $\frac{1}{8}$
- b.  $\frac{1}{4}$
- c.  $\frac{1}{2}$
- d. 2
- e. 16

**Explain your choice**

2.  $\frac{5}{6} + \frac{13}{14}$

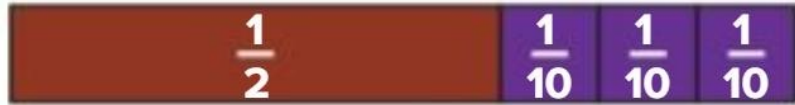
**Circle the best estimate**

- a.  $\frac{1}{2}$
- b. 1
- c. 2
- d. 18
- e. 20

**Explain your choice**

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1.  $\frac{1}{2} + \frac{3}{10} = \frac{5}{10} + \frac{3}{10}$



2.  $\frac{2}{3} + \frac{5}{9} = \frac{6}{9} + \frac{5}{9}$



3.  $\frac{5}{8} + \frac{1}{4} = \frac{5}{8} + \frac{2}{8}$



4.  $\frac{3}{4} + \frac{1}{6} = \frac{9}{12} + \frac{2}{12}$



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

$$1. \frac{2}{3} + \frac{3}{4} =$$

- A. 6
- B. 8
- C. 12
- D. 24

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

- A. 12
- B. 16
- C. 24
- D. 30

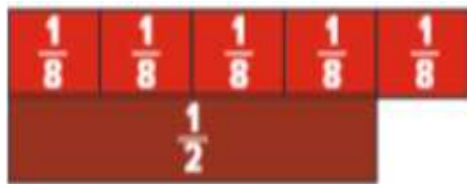
Complete the equation using addends with like denominators.

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

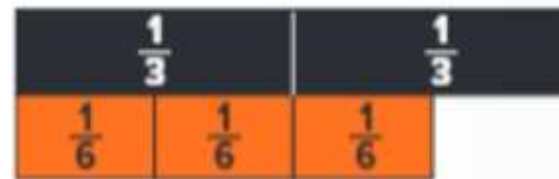
$$4. \frac{2}{3} + \frac{1}{6} = \frac{\boxed{4}}{\boxed{6}} + \frac{\boxed{1}}{\boxed{6}}$$

Complete the equation with Equivalent fractions that have like denominators

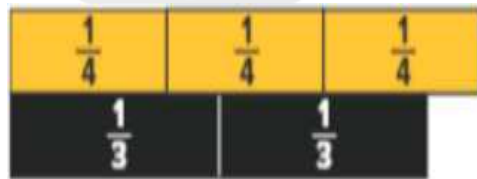
$$1. \frac{5}{8} - \frac{1}{2} = \frac{5}{8} - \frac{4}{8}$$



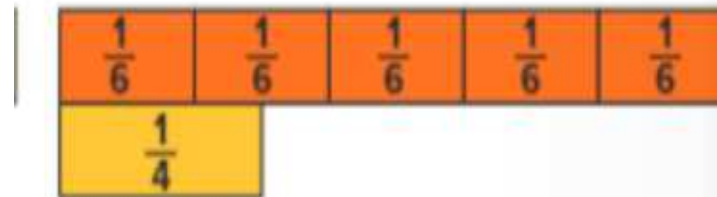
$$2. \frac{2}{3} - \frac{3}{6} = \frac{4}{6} - \frac{3}{6}$$



$$3. \frac{3}{4} - \frac{2}{3} = \frac{9}{12} - \frac{8}{12}$$



$$4. \frac{5}{6} - \frac{1}{4} = \frac{10}{12} - \frac{3}{12}$$



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**What is the product ? Use a representation to solve.**

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

$\frac{12}{5}$  or  $2\frac{2}{5}$



2)  $\frac{5}{6} \times 5$

$\frac{25}{6}$  or  $4\frac{1}{6}$



3)  $\frac{2}{5} \times 8$

$\frac{16}{5}$  or  $3\frac{1}{5}$

4)  $\frac{3}{8} \times 7$

$\frac{21}{8}$  or  $2\frac{5}{8}$

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**Complete the equation.**

$$1. \frac{1}{5} \times \frac{1}{5} = \frac{1}{5} \times \frac{1}{5} = \frac{1}{25}$$

$$2. \frac{2}{3} \times \frac{7}{8} = \frac{2}{3} \times \frac{7}{8} = \frac{14}{24}$$

$$3. \frac{2}{3} \times \frac{4}{9} = \frac{8}{27}$$

$$4. \frac{3}{7} \times \frac{4}{5} = \frac{12}{35}$$

**9. Complete the equation.**

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

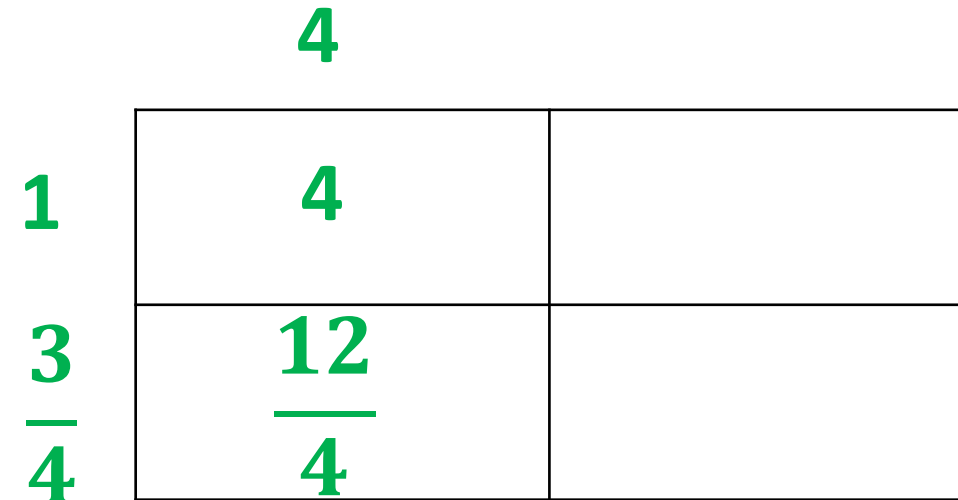
Complete the area model what is the product?

Q1)  $1\frac{1}{3} \times 1\frac{1}{2} ?$



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

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



$$= 4 + 3 = 7$$

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.  $2.4 \div 4 = 0.6$

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

1.  $10.8 \div 1.2 = \underline{9}$

$108 \div 12$

2.  $5.18 \div 0.74 = \underline{7}$

$518 \div 74$

3.  $27.6 \div 4.6 = \underline{6}$

$276 \div 46$

4.  $11.2 \div 1.6 = \underline{7}$

$112 \div 16$

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

**A.**  $5,271 \div 21$

**B.**  $5,271 \div 0.21$

**C.**  $52.71 \div 21$

**D.**  $52.71 \div 2.1$

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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?

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

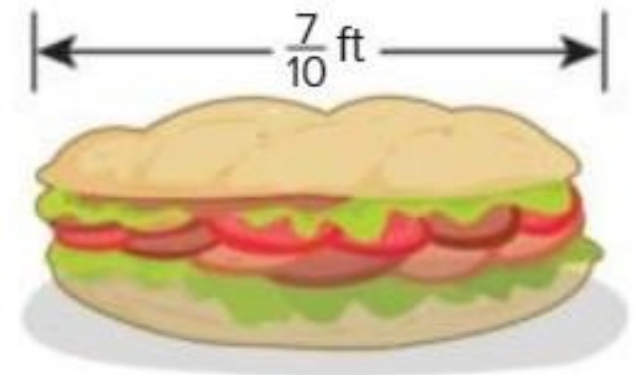


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11. Isabel bought this sandwich .She ate  $\frac{5}{8}$  foot of the sandwich .How much of the sandwich is left .

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



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 ?

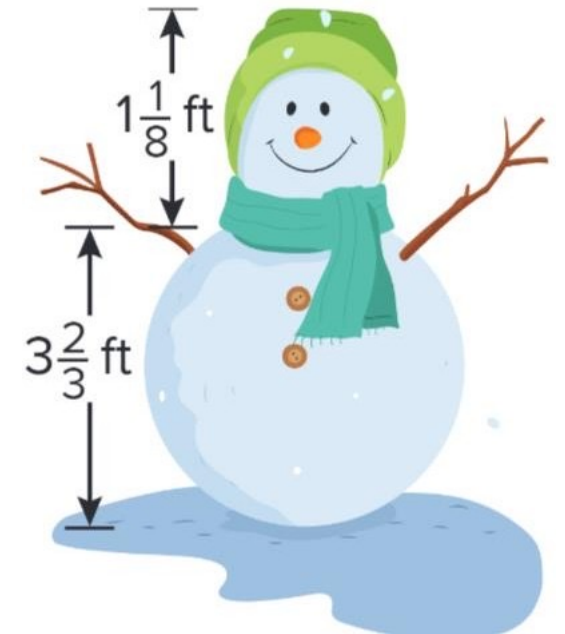
$$\frac{11}{12} - \frac{7}{9} = \frac{33}{36} - \frac{28}{36} = \frac{5}{36} \text{ mile}$$

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?

$$1\frac{1}{2} + 2\frac{2}{5} + 2 = 1 + 2 + 2 + \frac{1}{2} + \frac{2}{5} = 5\frac{9}{10} \text{ miles}$$

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

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



**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?

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

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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.  $1\frac{2}{24}$

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**What is the difference .**

$$Q3) 4\frac{3}{4} - 1\frac{1}{3} = 3\frac{5}{12}$$

$$Q4) 2\frac{3}{5} - 1\frac{1}{2} = 1\frac{1}{10}$$

$$Q5) 5\frac{5}{9} - 3\frac{1}{6} = 2\frac{7}{18}$$

$$Q6) 3\frac{7}{10} - 1\frac{3}{8} = 2\frac{13}{40}$$

$$Q7) 6\frac{1}{2} - 3\frac{1}{3} = 3\frac{1}{6}$$

$$Q8) 4\frac{5}{8} - 3\frac{1}{5} = 1\frac{17}{40}$$

What is the sum or difference? Choose the correct answer.

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

A.  $2\frac{11}{15}$

B.  $1\frac{1}{5}$

C.  $2\frac{3}{5}$

D.  $1\frac{11}{15}$

2.  $4\frac{5}{6} + 3\frac{3}{4} = ?$

A.  $7\frac{8}{12}$

B.  $7\frac{7}{12}$

C.  $8\frac{7}{12}$

D.  $8\frac{8}{12}$

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**What is the sum or difference .**

3.  $6\frac{1}{8} - 4\frac{1}{3} = \underline{1\frac{19}{24}}$

4.  $3\frac{3}{4} + 5\frac{2}{3} = \underline{9\frac{5}{12}}$

5.  $8\frac{1}{6} - 2\frac{2}{9} = \underline{5\frac{17}{18}}$

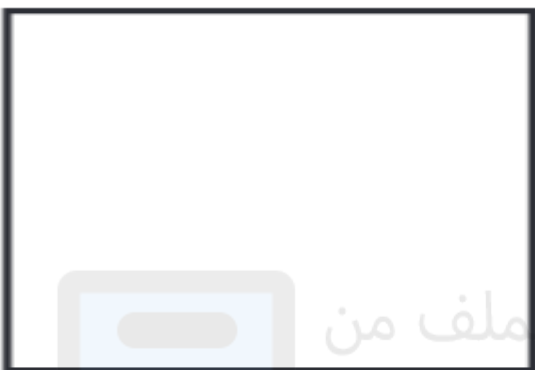
6.  $2\frac{7}{8} + 1\frac{1}{2} = \underline{4\frac{3}{8}}$

7.  $3\frac{1}{5} - 2\frac{3}{4} = \underline{\frac{9}{20}}$

8.  $1\frac{7}{12} + 3\frac{5}{8} = \underline{5\frac{5}{24}}$

What is the product? Use a representation to solve.  $\frac{15}{30} = \frac{1}{2}$

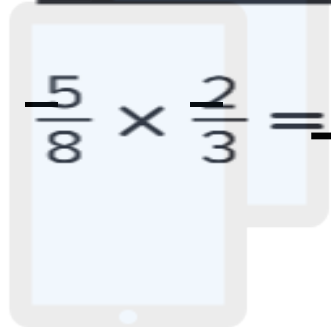
$$1. \quad \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$



$$2. \quad \frac{5}{6} \times \frac{3}{5} = \frac{15}{30} = \frac{1}{2}$$



$$3. \quad \frac{5}{8} \times \frac{2}{3} = \frac{10}{24}$$



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$$4. \quad \frac{3}{4} \times \frac{3}{5} = \frac{9}{20}$$

$$5. \quad \frac{4}{5} \times \frac{5}{6} = \frac{20}{30}$$

$$6. \quad \frac{7}{8} \times \frac{1}{3} = \frac{7}{24}$$

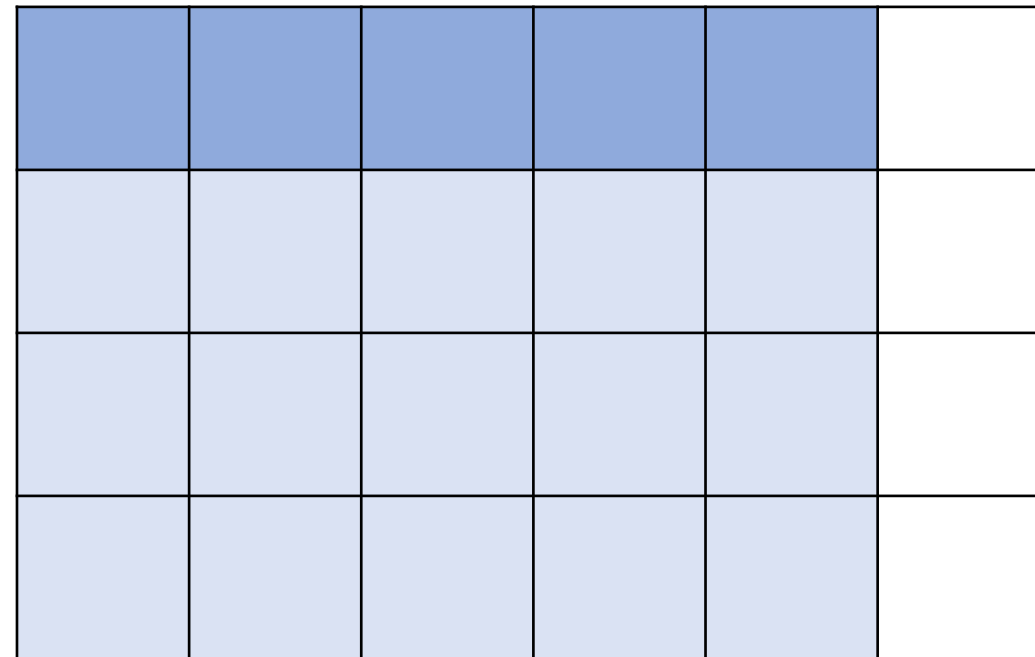
The area model represents what product ?

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.  $\frac{4}{5} \times \frac{5}{6}$



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

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

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?

$$\frac{3}{4} \times \frac{7}{8} = \frac{21}{32} \text{ Square miles}$$

**8.** The top of a table measures  $1\frac{3}{4}$  feet by 2 feet. What is the area of the tabletop?

$$2 \times 1\frac{3}{4} = 2 + \frac{6}{4} = 2 + \frac{4}{4} + \frac{2}{4} = 3\frac{2}{4} \text{ or } 3\frac{1}{2} \text{ Square feet}$$

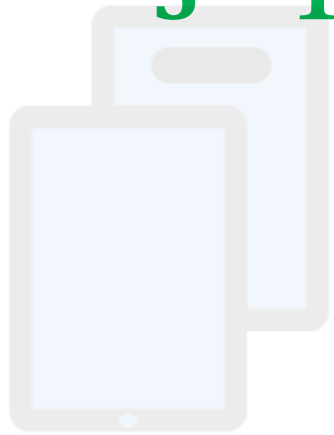
**Learning Outcome:** Find the area of a rectangle with fractional side lengths by multiplying the side lengths

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Exercise 7-9

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?

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



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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?



$6\frac{2}{3}$  lb

$$2\frac{1}{4} \times 6\frac{2}{3} = 12 + \frac{4}{3} + \frac{6}{4} + \frac{2}{12} = 15 \text{ pounds}$$

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?



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

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1. Which fraction will result in a product that is greater than  $\frac{3}{4}$ ?

$$\frac{3}{4} \times \underline{\hspace{2cm}}$$

A.  $\frac{1}{3}$

B.  $\frac{1}{2}$

C.  $\frac{5}{8}$

D.  $\frac{5}{4}$

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2. Which fraction will result in a product that is less than  $\frac{8}{7}$ ?

$$\frac{8}{7} \times \underline{\hspace{2cm}}$$

A.  $\frac{5}{7}$

B.  $\frac{12}{6}$

C.  $\frac{10}{7}$

D.  $\frac{8}{6}$

3. Which expression has a product that is less than the first factor? Select all that apply.

A.  $42 \times \frac{1}{2}$

B.  $35 \times \frac{2}{1}$

C.  $78 \times \frac{1}{5}$

D.  $26 \times \frac{4}{5}$

4. 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.  $\frac{2}{1} \times 75$

C.  $26 \times \frac{3}{2}$

D.  $\frac{9}{10} \times 5$

**Solve each problem. Then, explain your solution.**

- 5.** 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

$$9 \div 0.3 = 90 \div 3 = 30 \text{ glasses}$$

- 6.** 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?

$$12 \div 1.5 = 120 \div 15 = 8 \text{ pieces}$$

**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 ?

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

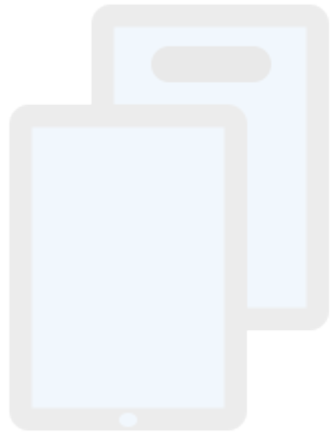
8. Melissa has \$30 to spend on apples from a local apple orchard. How many pounds of apples can Melissa buy?

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



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?

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



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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?

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

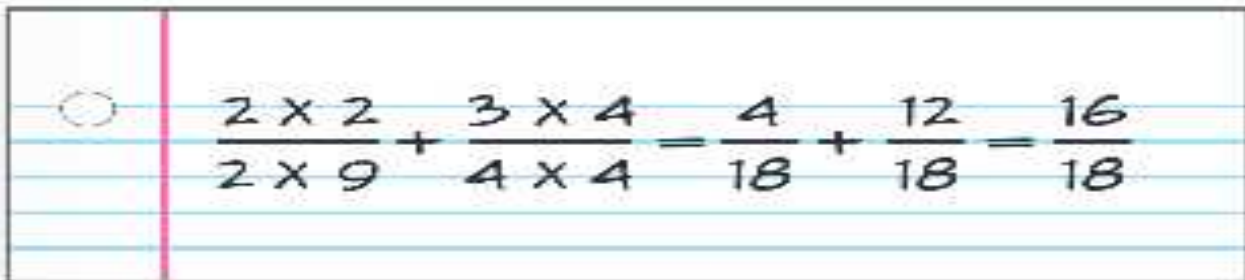
11. Heather uses  $\frac{2}{3}$  foot of yarn for her art project. She adds another  $\frac{1}{12}$  foot to complete the project. How much yarn does Heather use in all?

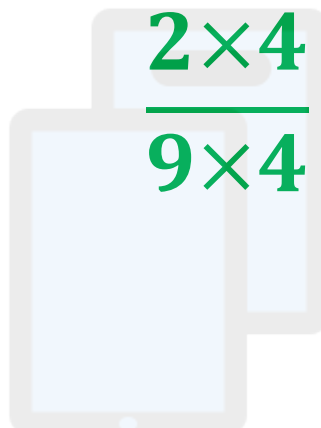
$$\frac{2}{3} + \frac{1}{12} = \frac{8}{12} + \frac{1}{12} = \frac{9}{12} \text{ or } \frac{3}{4} \text{ foot}$$



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

How can you help Mia correct her mistake?


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


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

## What is the product ? Use an area model to solve

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

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

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

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

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

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

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

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