[OBJECTIVE]

The student will add fractions with unlike denominators.

[PREREQUISITE SKILLS] equivalent fractions, adding fractions with like denominators

[MATERIALS]

Student pages **S160 – S169** Transparencies **T483, T485, T487, T489, T491, T493, and T495** Fraction Kits 1–3 Overhead fraction strips Colored pencils Foldable from Lesson 16

[ESSENTIAL QUESTIONS]

- 1. How does it help our understanding of adding fractions to build with concrete materials?
- 2. How does it help our understanding of adding fractions to build with pictorial models?
- 3. How can we add fractions with unlike denominators?

[Words For Word Wall]

addend, sum, denominator, numerator, equivalent, legal trade, simplest form

[GROUPING]

Cooperative Pairs (CP), Whole Group (WG), Individual (I)

*For Cooperative Pairs (CP) activities, assign the roles of Partner A and Partner B to students. This allows each student to be responsible for designated tasks within the lesson.

[LEVELS OF TEACHER SUPPORT]

Modeling (M), Guided Practice (GP), Independent Practice (IP)

[MULTIPLE REPRESENTATIONS]

SOLVE, Graphic Organizer, Verbal Description, Pictorial Representation, Concrete Representation

[WARM-UP] (5 minutes – IP, I, WG) S160 (Answers on T482.)

• Have students turn to S160 in their books to begin the Warm-Up. Students will add fractions with like denominators. Monitor students to see if any of them need help during the Warm-Up. Give students 3 minutes to complete the problems and then spend 2 minutes reviewing the answers as a class. **{Verbal Description}**

[HOMEWORK] (5 minutes)

Take time to go over the homework from the previous night.

[LESSON] (60 minutes - M, GP, IP, WG, I, CP)

SOLVE Problem (3 minutes – GP, WG) T483, S161 (Answers on T484.)

Have students turn to S161 in their books, and place T485 on the overhead. The first problem is a SOLVE problem. You are only going to complete the S step with students at this point. Tell students that during the lesson they will learn how to add fractions with unlike denominators. They will use this knowledge to complete this SOLVE problem at the end of the lesson. **{SOLVE, Graphic Organizer}**

Add Fractions – Concrete – Unlike Denominators (9 minutes – M, CP, GP, IP, WG) T483, T485, S161, S162 (Answers on T484, T486.)				
5 minutes – M, CP, GP, WG:	Have students turn to S161 in their books, and place T483 on the overhead. Use the overhead fraction strips and the following modeling activity to help students investigate adding fractions with unlike denominators using their fraction kits. Assign the roles of Partner A and Partner B. {Verbal Description, Concrete Representation, Graphic Organizer}			





3 minutes – IP, CP:	Have students work in partners to complete Problems 3 and 4 on S162. Tell students to make sure they use their fraction strips to legally trade for strips of one color and to put the solutions in simplest form. {Verbal Description, Concrete Representation, Graphic Organizer}
1 minute – WG:	Have students come back together as a class and share their results. They should be able to justify sums using their fraction strips. {Verbal Description, Concrete Representation, Graphic Organizer}

Add Unlike Fractions – Move to Pictorial – Rename One Addend (8 minutes – M, GP, WG, IP, CP) T487, S163 (Answers on T488.)

5 minutes – M, GP, CP, WG: Have students turn to S163 in their books, and place T487 on the overhead. Pass out colored pencils to each student. Use the overhead fraction strips and the following modeling activity to help students investigate adding fractions with unlike denominators at the pictorial level by renaming one addend. {Verbal Description, Concrete Representation, Graphic Organizer, Pictorial Representation}

MODELING -

Add Unlike Fractions - Move to Pictorial - Rename One Addend

- **Step 1:** Have students build $\frac{1}{3} + \frac{4}{9}$ using green and purple fraction strips. Direct students' attention to Problem 1 and explain that now students will model adding $\frac{1}{3}$ and $\frac{4}{9}$ pictorially. Tell students that they are going to learn how to find the sum of fractions that have different denominators by finding a common denominator.
- **Step 2:** Point out the three strips in the Picture Column next to Problem 1. Tell students that the first two strips will represent the addends, and the third strip will represent the sum. Tell students to shade $\frac{1}{3}$ on the first strip with green to represent the first addend. Tell students to shade $\frac{4}{9}$ on the second strip with purple to represent the second addend. The shading is shown below.





2 minutes – IP, CP:	Have students work in partners to complete
	Problems 2-4 on S163. Tell students to use
	their fraction strips to check if they can legally
	trade the solutions for fewer strips in another
	color. Tell students that they may have to shade
	a fourth fraction strip to show simplest form.
	{Verbal Description, Concrete Representation, Pictorial
	Representation, Graphic Organizer}

 1 minute – WG:
 Have students come back together as a class and share their results. They should be able to justify their sums using the pictorial models.

 {Verbal Description, Pictorial Representation, Graphic Organizer}

Add Unlike Fractions – Move to Pictorial – Rename Both Addends
(8 minutes – M, GP, CP, IP, WG) T489, S164 (Answers on T490.)

4 minutes – M, GP, WG, CP: Have students turn to S164 in their books, and place T489 on the overhead. Use the overhead fraction strips and the following modeling activity to help students investigate adding fractions with unlike denominators at the pictorial level by renaming both addends. {Verbal Description, Pictorial Representation, Graphic Organizer}

MODELING -

Add Unlike Fractions – Move to Pictorial – Rename Both Addends

- **Step 1:** Direct students' attention to Problem 1 and explain that now students will model adding $\frac{1}{5}$ and $\frac{1}{2}$ pictorially. Remind students that in these problems a common denominator will have to be determined for both fractions. Explain that students will be finding equivalent fractions.
- **Step 2:** Point out the strips in the Picture Column. Tell students that the first two strips will represent the addends and the third strip will represent the sum.



3 minutes – IP, CP: Have students work in partners to complete S164. Tell students that they may use their fraction strips to check if their solutions are in simplest form. {Verbal Description, Pictorial Representation, Graphic Organizer}

1 minute – WG:Have students come back together as a class and
share their results. They should be able to justify their
sums using the pictorial models. {Verbal Description,
Pictorial Representation, Graphic Organizer}

Add Fractions – Move to Abstr	act (8 minutes – M, CP, IP, GP, WG) T491, S165 (Answers on T492.)
5 minutes – M, GP, CP, WG:	Have students turn to S165 in their books, and place T491 on the overhead. Use the following modeling activity to help students investigate adding fractions with unlike denominators at the abstract level. {Verbal Description, Pictorial Representation, Graphic Organizer}
	MODELING
Add Fracti	ions – Move to Abstract
Step 1: Direct students' attention model of the problem as	on to Problem 1. Have students draw a pictorial s you model. Shade $\frac{1}{2}$ in brown and $\frac{2}{6}$ in orange.
 Step 2: Model for students how least common multiple of 2: 2 9 Partner A, identify the Partner B, which fract (¹/₂) Have students drating 1 to show the legal transmission 	to find a common denominator by finding the of 2 and 6: 2, 4, 6 5) 12 e common denominator. (6) tion will need to have the denominator changed? aw a picture in the second column next to Problem rade as you model.
Explain that $\frac{1}{2}$ changed t denominator of 6. Ask, "multiplied by 3.)	to $\frac{3}{6}$ and that the 2 was multiplied by 3 to get the 'What happened to the numerator?" (It was also
Step 3: Have students draw the shown below.	problem and solution in the second column as



2 minutes – IP, CP: H 3 G	lave students work in partners to complete Problems -4 on S165. {Verbal Description, Pictorial Representation, Graphic Organizer}
1 minutes – WG: s u R	lave students come back together as a class and hare their results. They should be able to justify sums using the pictorial models. {Verbal Description, Pictorial Representation, Graphic Organizer}
Add Fractions - Without M	lodels (12 minutes – M, GP, IP, CP, WG) T493, S166 (Answers on T494.)
6 minutes – M, GP, CP, W	 'G: Have students turn to S166 in their books, and place T493 on the overhead. Use the following activity to help students add unlike fractions without models. {Verbal Description, Graphic Organizer}

Add Fractions – Without Models

Step 1: Direct students' attention to Problem 1.

- Partner A, identify the problem. (What is $\frac{1}{6} + \frac{2}{3}$?)
- Partner B, determine if the fractions have a common denominator. (No.)
- Find a common denominator by finding the least common multiple of both denominators. (Model how to list the multiples and find the least common multiple. Multiples of 3: 3, 6, 9, 12; Multiples of 6: 6, 12, 18.)
- Partner A, determine the least common multiple of 3 and 6. (6)
- Change $\frac{2}{3}$ to a fraction with a denominator of 6. This will be a fraction that is equivalent to $\frac{2}{3}$. What would you multiply 3 by to get a product of 6? (2) Multiply the numerator by the same factor. What is the equivalent fraction? $\left(\frac{4}{6}\right)$

• Partner B, identify the new problem. $\left(\frac{1}{6} + \frac{4}{6}\right)$

- Add the numerators, and the denominators will remain the same.
- Partner A, identify the sum. $\left(\frac{5}{6}\right)$
- Partner B, determine if we need to simplify this fraction. (No.)



4 minutes – IP, CP: Have students work in partners to complete Problems 3–6 on S166. {Verbal Description, Graphic Organizer}

2 minutes – WG: Have students come back together as a class and share their results. They should be able to justify sums using pictorial models. **{Verbal Description, Graphic Organizer}**

Fraction Foldable

(5 minutes – M, GP, WG)

Have students take out the Fraction Foldable they created in Lesson 16. Use the following activity to help students continue to add to the fraction foldable. **{Verbal Description, Graphic Organizer}**

- MODELING -

Fraction Foldable

Step 1: Have students take out their fraction foldables.

- **Step 2:** Create a transparency to model for students what should be included on the page for Addition Unlike Denominators.
- **Step 3:** On page 2 of the Fraction Foldable, model for students how to label the section: Addition Unlike Denominators. Discuss with students what they have to do to add fractions with unlike denominators and then list the steps. Use your foldable to reference what you want written in the foldable.

SOLVE Problem

(5 minutes – GP, WG) T495, S167 (Answers on T496.)

Remind students that the SOLVE problem is the same one from the beginning of the lesson. Complete the SOLVE problem with your students. Ask them for possible connections from the SOLVE problem to the lesson.(Students will work with addition of fractions with unlike denominators.) **{SOLVE, Verbal Description, Graphic Organizer}**

If time permits...

(10 minutes - IP, I) S168 (Answers on T497.)

Have students complete Problems 1-10 on S168.

[CLOSURE] (2 minutes)

To wrap up the lesson, go back to the essential questions and discuss them with students.

- How does it help our understanding of adding fractions to build with concrete materials? (Using concrete materials helps us see and touch the fractions we are adding.)
- How does it help our understanding of adding fractions to build with pictorial models? (Using pictorial models helps us see the relationship between the fractions we are adding.)
- How can we add fractions with unlike denominators? (*Represent both fractions, legally trade for one color, push together and simplify; fewest pieces of one color.*)

[HOMEWORK] Assign S169 for homework. (Answers on T498.)

[QUIZ ANSWERS] T499-T500

1. **D** 2. **C** 3. **D** 4. **C** 5. **D** 6. **B** 7. **A** 8. **B** 9. **D** 10. **C**

The quiz can be used at any time as extra homework or to see how students progress on understanding adding fractions with unlike denominators.

T482



TRANSPARENCY MASTER for S161

Directions: Complete the following SOLVE problem with your teacher. You will only complete the S step.

Dino and Mark are doing a project for art class. It is due on Tuesday. Dino begins by drawing a $\frac{1}{2}$ -inch line, and Mark draws a $\frac{1}{3}$ -inch line. What is the total length of the lines?

S Underline the question. This problem is asking me to find _____



Here is the key to **S161**.

Directions: Complete the following SOLVE problem with your teacher. You will only complete the S step.

Dino and Mark are doing a project for art class. It is due on Tuesday. Dino begins by drawing a $\frac{1}{2}$ -inch line, and Mark draws a $\frac{1}{3}$ -inch line. What is the total length of the lines?

S Underline the question.

This problem is asking me to find **the sum of the lengths of the lines**.



Mathematics Success – Level E

LESSON 17: Add Fractions - Unlike Denominators

TRANSPARENCY MASTER for S162

Directions: Complete this page with your partner.



Here is the key to **S162.**

Directions: Complete this page with your partner.



TRANSPARENCY MASTER for S163

Problem	Picture	Rewrite Fraction with Common Denominator	Add Fractions	Simplest Form
1. $\frac{1}{3} + \frac{4}{9}$			$\frac{1}{3} + \frac{4}{9} =$ + =	
2. $\frac{4}{8} + \frac{1}{4}$			$\frac{4}{8} + \frac{1}{4} =$ 	
3. $\frac{1}{4} + \frac{1}{2}$			$\frac{1}{4} + \frac{1}{2} =$ 	
4. $\frac{1}{5} + \frac{3}{10}$			$\frac{1}{5} + \frac{3}{10} =$ 	

Here is the key to **S163**.

Directions:	Complete	this page	with your	teacher	and partner.
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Problem	Picture	Rewrite Fraction with Common Denominator	Add Fractions	Simplest Form
1. $\frac{1}{3} + \frac{4}{9}$		$\frac{1}{3} = \frac{3}{9}$	$\frac{1}{3} + \frac{4}{9} = \frac{3}{9} + \frac{4}{9} = \frac{7}{9}$	<u>7</u> 9
2. $\frac{4}{8} + \frac{1}{4}$		$\frac{1}{4} = \frac{2}{8}$	$\frac{\frac{4}{8} + \frac{1}{4} =}{\frac{4}{8} + \frac{2}{8} = \frac{6}{8}}$	$\frac{6}{8} = \frac{3}{4}$
3. $\frac{1}{4} + \frac{1}{2}$		$\frac{1}{2} = \frac{2}{4}$	$\frac{1}{4} + \frac{1}{2} = \frac{1}{4} + \frac{2}{4} = \frac{3}{4}$	3 4
4. $\frac{1}{5} + \frac{3}{10}$		$\frac{1}{5} = \frac{2}{10}$	$\frac{\frac{1}{5}}{\frac{1}{10}} + \frac{3}{10} = \frac{5}{10}$	$\frac{5}{10} = \frac{1}{2}$

TRANSPARENCY MASTER for S164

Problem	Picture	Rewrite Fraction with Common Denominator	Add Fractions	Simplest Form
1. $\frac{1}{5} + \frac{1}{2}$		5: 2:	$\frac{1}{5} + \frac{1}{2} =$ + =	
2. $\frac{1}{4} + \frac{2}{6}$		4: 6:	$\frac{1}{4} + \frac{2}{6} =$ + =	
3. $\frac{3}{6} + \frac{1}{3}$		6: 3:	$\frac{3}{6} + \frac{1}{3} =$ 	
4. $\frac{2}{3} + \frac{1}{4}$		3: 4:	$\frac{2}{3} + \frac{1}{4} =$ + =	

Here is the key to **S164**.

Problem	Picture	Rewrite Fraction with Common Denominator	Add Fractions	Simplest Form
1. $\frac{1}{5} + \frac{1}{2}$		5: 5, 10, 15 2: 2, 4, 6, 8, 10 $\frac{1}{5} = \frac{2}{10}$ $\frac{1}{2} = \frac{5}{10}$	$\frac{\frac{1}{5} + \frac{1}{2}}{\frac{2}{10}} = \frac{7}{10}$	7 10
2. $\frac{1}{4} + \frac{2}{6}$		4: 4, 8, 12 16 6: 6, 12, 18 $\frac{1}{4} = \frac{3}{12}$ $\frac{2}{6} = \frac{4}{12}$	$\frac{\frac{1}{4} + \frac{2}{6}}{\frac{3}{12} + \frac{4}{12}} = \frac{7}{12}$	7 12
3. $\frac{3}{6} + \frac{1}{3}$		6: 6, 12, 18 3: 3, 6, 9 $\frac{1}{3} = \frac{2}{6}$	$\frac{\frac{3}{6}}{\frac{1}{6}} + \frac{\frac{1}{3}}{\frac{1}{6}} = \frac{5}{\frac{1}{6}}$	56
4. $\frac{2}{3} + \frac{1}{4}$		3: 3, 6, 9, 12 4: 4, 8, 12 16 $\frac{2}{3} = \frac{8}{12}$ $\frac{1}{4} = \frac{3}{12}$	$\frac{\frac{2}{3}}{\frac{1}{12}} + \frac{1}{\frac{1}{4}} = \frac{1}{\frac{1}{12}} = \frac{1}{12}$	<u>11</u> 12

TRANSPARENCY MASTER for S165

Draw your problem.	Legally trade so they are all one color. Push together once they are all in one color.	Rewrite problem with common denominator and show in simplest form.
1. $\frac{1}{2} + \frac{2}{6}$		
2. $\frac{2}{4} + \frac{2}{6}$		
3. $\frac{2}{5} + \frac{3}{10}$		
4. $\frac{2}{9} + \frac{2}{3}$		

T492

LESSON 17: Add Fractions - Unlike Denominators

Here is the key to **S165**.



TRANSPARENCY MASTER for S166

1. $\frac{1}{6}$ + $\frac{2}{3}$	4. $\frac{1}{4}$ + $\frac{3}{8}$
Are denominators common? Least Common Multiple:	Are denominators common? Least Common Multiple:
Equivalent Fractions:	Equivalent Fractions:
Rewrite number sentence	Rewrite number sentence:
2. $\frac{2}{5}$ + $\frac{1}{2}$	5. $\frac{3}{5}$ + $\frac{1}{10}$
Are denominators common? Least Common Multiple:	Are denominators common? Least Common Multiple:
Equivalent Fractions:	Equivalent Fractions:
Rewrite number sentence:	Rewrite number sentence:
3. $\frac{2}{3}$ + $\frac{1}{9}$	6. $\frac{3}{8}$ + $\frac{1}{2}$
Are denominators common? Least Common Multiple:	Are denominators common? Least Common Multiple:
Equivalent Fractions:	Equivalent Fractions:
Rewrite number sentence:	Rewrite number sentence:

Here is the key to **S166**.

1. $\frac{1}{6}$ + $\frac{2}{3}$	4. $\frac{1}{4}$ + $\frac{3}{8}$
Are denominators common? No .	Are denominators common? No.
Least Common Multiple: 6	Least Common Multiple: 8
Equivalent Fractions: $\frac{2}{3} = \frac{4}{6}$	Equivalent Fractions: $\frac{1}{4} = \frac{2}{8}$
Rewrite number sentence:	Rewrite number sentence:
$\frac{1}{6} + \frac{4}{6} = \frac{5}{6}$	$\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$
2. $\frac{2}{5}$ + $\frac{1}{2}$	5. $\frac{3}{5}$ + $\frac{1}{10}$
Are denominators common? No.	Are denominators common? No.
Least Common Multiple: 10	Least Common Multiple: 10
Equivalent Fractions: $\frac{2}{5} = \frac{4}{10}$, $\frac{1}{2} = \frac{5}{10}$	Equivalent Fractions: $\frac{3}{5} = \frac{6}{10}$
Rewrite number sentence:	Rewrite number sentence:
$\frac{4}{10} + \frac{5}{10} = \frac{9}{10}$	$\frac{6}{10} + \frac{1}{10} = \frac{7}{10}$
3. $\frac{2}{3}$ + $\frac{1}{9}$	6. $\frac{3}{8}$ + $\frac{1}{2}$
Are denominators common? No .	Are denominators common? No .
Least Common Multiple: 9	Least Common Multiple: 8
Equivalent Fractions: $\frac{2}{3} = \frac{6}{9}$	Equivalent Fractions: $\frac{1}{2} = \frac{4}{8}$
Rewrite number sentence:	Rewrite number sentence:
$\frac{6}{9} + \frac{1}{9} = \frac{7}{9}$	$\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$

TRANSPARENCY MASTER for S167

Directions: Complete the following SOLVE problem with your teacher.

Dino and Mark are doing a project for art class. It is due on Tuesday. Dino begins by drawing a $\frac{1}{2}$ -inch line, and Mark draws a $\frac{1}{3}$ -inch line. What is the total length of the lines?	
S Underline the question. This problem is asking me to find	
O Identify the facts.	
Eliminate the unnecessary facts. List the necessary facts.	
L Choose an operation or operations. Write in words what your plan of action will be.	
 V Estimate your answer. Carry out your plan. 	
 E Does your answer make sense? (Compare your answer to the question.) Is your answer reasonable? (Compare your answer to the estimate.) Is your answer accurate? (Check your work.) Write your answer in a complete sentence. 	

Here is the key to **S167**.

Directions: Complete the following SOLVE problem with your teacher.

Dino and Mark are doing a project for art class. | It is due on Tuesday. | Dino begins by drawing a $\frac{1}{2}$ -inch line, | and Mark draws a $\frac{1}{3}$ -inch line. | What is the total length of the lines? **S** Underline the question. This problem is asking me to find **the sum of the lengths of the lines. O** Identify the facts. Eliminate the unnecessary facts. List the necessary facts. Dino - $\frac{1}{2}$ -inch line, Mark - $\frac{1}{3}$ -inch line L Choose an operation or operations. Addition Write in words what your plan of action will be. Add the length of the line Mark draws to the length of the line Dino draws. Find the common multiple to determine the common denominator, and then change each fraction to an equivalent fraction using the common denominator. Then add, and simplify if needed. **V** Estimate your answer. **About 1 inch** Carry out your plan. $\frac{1}{2} + \frac{1}{3} = \frac{1}{2} = \frac{3}{6} = \frac{1}{3} = \frac{2}{6}$ **Common Multiple: 6** $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$ of an inch **E** Does your answer make sense? (Compare your answer to the question.) **Yes**, because we are looking for the sum of the lengths of the lines. Is your answer reasonable? (Compare your answer to the estimate.) **Yes**, because it is close to our estimate of about 1 inch. Is your answer accurate? (Check your work.) Yes. Write your answer in a complete sentence. The sum of the lengths of the lines drawn by Dino and Mark is $\frac{5}{6}$ of an inch.

Here is the key to **S168**.

Directions: Complete the following addition problems with unlike denominators. Draw pictures if needed. All answers should be simplified.

1. $\frac{4}{10} + \frac{3}{5} = \frac{10}{10} = 1$	2. $\frac{6}{12} + \frac{1}{4} = \frac{9}{12} = \frac{3}{4}$
3. $\frac{2}{6} + \frac{1}{3} = \frac{4}{6} = \frac{2}{3}$	4. $\frac{2}{9} + \frac{1}{3} = \frac{5}{9}$
5. $\frac{4}{10} + \frac{1}{2} = \frac{9}{10}$	6. $\frac{5}{6} + \frac{1}{12} = \frac{11}{12}$
7. $\frac{2}{5} + \frac{4}{10} = \frac{8}{10} = \frac{4}{5}$	8. $\frac{3}{4} + \frac{1}{8} = \frac{7}{8}$
9. $\frac{3}{8} + \frac{2}{4} = \frac{7}{8}$	10. $\frac{3}{6} + \frac{1}{2} = \frac{6}{6} = 1$

T498

Homework
Date
g fraction addition problems. Draw pictures
2. $\frac{5}{9} + \frac{1}{3} = \frac{8}{9}$
4. $\frac{2}{4} + \frac{1}{3} = \frac{10}{12} = \frac{5}{6}$
6. $\frac{3}{8} + \frac{2}{4} = \frac{7}{8}$
8. $\frac{4}{12} + \frac{1}{3} = \frac{8}{12} = \frac{2}{3}$
10. $\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$

Mathematics Success – Level E

Na	me	Date
		Quiz
Di	r ections: Find the sum. All answers s	should be in simplest form.
		1
1.	$\frac{4}{8} + \frac{2}{4} =$	2. $\frac{2}{6} + \frac{1}{3} =$
	A. $\frac{5}{12}$	A. $\frac{1}{4}$
	B. $\frac{1}{2}$	B. $\frac{1}{3}$
	C. $\frac{3}{4}$	C. $\frac{2}{3}$
	D. 1	D. 1
3.	$\frac{3}{5} + \frac{3}{10} =$	4. $\frac{1}{2} + \frac{1}{12} =$
	A. $\frac{2}{5}$	A. $\frac{4}{12}$
	B. $\frac{1}{2}$	B. $\frac{5}{12}$
	C. $\frac{4}{5}$	C. $\frac{7}{12}$
	D. $\frac{9}{10}$	D. $\frac{11}{12}$
5.	$\frac{6}{9} + \frac{1}{3} =$	6. $\frac{1}{12} + \frac{1}{6} =$
	A. $\frac{2}{9}$	A. $\frac{1}{6}$
	B. $\frac{1}{3}$	B. $\frac{1}{4}$
	C. $\frac{2}{3}$	C. $\frac{1}{2}$
	D. 1	D. $\frac{2}{3}$

T500

7.	$\frac{1}{3} + \frac{3}{6} =$	8. $\frac{1}{2} + \frac{1}{4} =$
	A. $\frac{5}{6}$	A. $\frac{1}{3}$
	B. ⁸ / ₉	B. $\frac{3}{4}$
	C. 1	C. $\frac{5}{6}$
	D. $1\frac{1}{2}$	D. 1
9.	$\frac{1}{10} + \frac{4}{5} =$	10. $\frac{2}{3} + \frac{2}{9} =$
9.	$\frac{1}{10} + \frac{4}{5} =$ A. $\frac{1}{5}$	10. $\frac{2}{3} + \frac{2}{9} =$ A. $\frac{1}{3}$
9.	$\frac{1}{10} + \frac{4}{5} =$ A. $\frac{1}{5}$ B. $\frac{1}{3}$	10. $\frac{2}{3} + \frac{2}{9} =$ A. $\frac{1}{3}$ B. $\frac{2}{3}$
9.	$\frac{1}{10} + \frac{4}{5} =$ A. $\frac{1}{5}$ B. $\frac{1}{3}$ C. $\frac{1}{2}$	10. $\frac{2}{3} + \frac{2}{9} =$ A. $\frac{1}{3}$ B. $\frac{2}{3}$ C. $\frac{8}{9}$
9.	$\frac{1}{10} + \frac{4}{5} =$ A. $\frac{1}{5}$ B. $\frac{1}{3}$ C. $\frac{1}{2}$ D. $\frac{9}{10}$	10. $\frac{2}{3} + \frac{2}{9} =$ A. $\frac{1}{3}$ B. $\frac{2}{3}$ C. $\frac{8}{9}$ D. 1