YESHIVA
TORAS CHAIM
TORAS EMES

KLURMAN
ELEMENTARY SCHOOL

# Summer Review Program

## Summer 2024/5784

Student's Name

_____

2023-2024

Grade 4th **Grade**

## Summer Math Reinforcement Packet
## Students Entering into 5th Grade

Dear Parents,

Our fourth graders had a busy year learning new math skills. Mastery of all these skills is extremely important in order to develop a solid math foundation. The fifth grade math program will add onto these fourth grade skills, so any time spent learning or reinforcing these concepts will be very beneficial to your child. Each year builds upon the previous year's skills in math. Student mastery of the basic math skills is as important to success in future mathematical procedures and reasoning as learning the alphabet is to reading and writing.

While summer is a time to relax from the rigors of school, it is important to review and practice the math concepts from the previous year. Have your child complete one page (one side), three times a week of the math packet. Your child will receive a reward for completing the packet, but the biggest reward of all will be being ready for fifth grade! Please return this completed packet in August to your fifth grade teacher.

Here are some suggested websites for learning and reinforcement of math skills:

www. ixl.com/math; www.harcourtschool.com; www.aplusmath.com; www.eduplace.com;   www.khanacademy.com;  www.mathgames.com

Thank you for assisting us in educating your children. If you have any questions or concerns, please feel free to contact us.

Have a wonderful summer,

Rabbi Kalman Baumann - Principal

Rabbi Noam Grossman - Boys' Principal

Mrs. Miriam Deitsch - Girls' Principal

Mrs. Jodi Tuchinsky - Math Department Head

# Number Forms

Put each number in standard form, word form, and expanded form.

| Standard Form | Word Form | Expanded Form |
|---|---|---|
| 50,008 | | |
| | five thousand twelve | |
| | | 10,000 + 3,000 + 30 |
| 506,013 | | |
| | eleven thousand ten | |
| | | 600,000 + 10,000 + 2 |

# Fluency: 2's

| | | |
|---|---|---|
| 2 x 1 = ___ | 2 x 2 = ___ | 2 x 3 = ___ |
| 2 x 4 = ___ | 2 x 5 = ___ | 2 x 6 = ___ |
| 2 x 7 = ___ | 2 x 8 = ___ | 2 x 9 = ___ |
| 2 x 10 = ___ | 2 x 8 = ___ | 2 x 10 = ___ |
| 2 x 9 = ___ | 2 x 7 = ___ | 2 x 6 = ___ |
| 2 x ___ = 16 | 2 x ___ = 10 | 2 x ___ = 14 |
| 2 x ___ = 12 | 14 ÷ 2 = ___ | 8 ÷ 2 = ___ |
| 16 ÷ ___ = 2 | 12 ÷ ___ = 2 | 18 ÷ ___ = 2 |

# Comparing Numbers

Use < , > , or = to compare.

231,201 ◯ 24,999          211,000 ◯ 40,000

180,281 ◯ 180,209         9,028 ◯ 9,208

5,200 ◯ 5,199             50 + 40,000 ◯ 40,500

11,190 ◯ 100,000          182,304 ◯ 391,391

5 tens and 30 hundreds ◯ 3,005     14,000 ◯ 41,000

918,301 ◯ 90,000 + 9,000          2,000 ◯ ten thousand

# Fluency: 3's

| | | |
|---|---|---|
| 3 x 1= ___ | 3 x 2 = ___ | 3 x 3 = ___ |
| 3 x 4 = ___ | 3 x 5 = ___ | 3 x 6 = ___ |
| 3 x 7 = ___ | 3 x 8 = ___ | 3 x 9 = ___ |
| 3 x 10 = ___ | 3 x 8 = ___ | 3 x 10 = ___ |
| 3 x 9 = ___ | 3 x 7 = ___ | 3 x 6 = ___ |
| 3 x ___ = 21 | 3 x ___ = 24 | 3 x ___ = 18 |
| 3 x ___ = 15 | 9 ÷ 3 = ___ | 12 ÷ 3 = ___ |
| 27 ÷ ___ = 3 | 24 ÷ ___ = 3 | 21 ÷ ___ = 3 |

# Round 'Em Up!

Use your favorite strategy to round to the nearest ten thousand.

58,000 ≈ _____          612,391 ≈ _____

44,998 ≈ _____          851,019 ≈ _____

398,011 ≈ _____          490,999 ≈ _____

Use your favorite strategy to round to the nearest hundred thousand.

58,000 ≈ _____          612,391 ≈ _____

44,998 ≈ _____          851,019 ≈ _____

398,011 ≈ _____          490,999 ≈ _____

# Fluency: 4's

| | | |
|---|---|---|
| 4 x 1= ___ | 4 x 2 = ___ | 4 x 3 = ___ |
| 4 x 4 = ___ | 4 x 5 = ___ | 4 x 6 = ___ |
| 4 x 7 = ___ | 4 x 8 = ___ | 4 x 9 = ___ |
| 4 x 10 = ___ | 4 x 6 = ___ | 4 x 8 = ___ |
| 4 x 7 = ___ | 4 x 5 = ___ | 4 x 4 = ___ |
| 4 x ___ = 32 | 4 x ___ = 24 | 4 x ___ = 20 |
| 4 x ___ = 28 | 16 ÷ 4 = ___ | 24 ÷ 4 = ___ |
| 32 ÷ ___ = 4 | 28 ÷ ___ = 4 | 12 ÷ ___ = 4 |

# Vrooom!

1. A Tesla car costs $94,490.  A Porsche car costs $95,710 more than the Tesla. A Ferrari car costs $76,197 more than the Tesla.  How much money would it cost to buy all three cars?  (Hint: it's a lot!)

2. The world record for the longest car journey belongs to Emil and Liliana Schmid, who traveled 460,476 miles in one very long trip.  The world record for the longest swim, set by Martin Strel, is 457,204 miles shorter.  How many more miles would Martin need to swim to reach 10,000 miles?

# Fluency: 5's

| | | |
|---|---|---|
| 5 x 1= ___ | 5 x 2 = ___ | 5 x 3 = ___ |
| 5 x 4 = ___ | 5 x 5 = ___ | 5 x 6 = ___ |
| 5 x 7 = ___ | 5 x 8 = ___ | 5 x 9 = ___ |
| 5 x 10 = ___ | 5 x 6 = ___ | 5 x 8 = ___ |
| 5 x 7 = ___ | 5 x 5 = ___ | 5 x 4 = ___ |
| 5 x ___ = 35 | 5 x ___ = 40 | 5 x ___ = 30 |
| 5 x ___ = 15 | 20 ÷ 5 = ___ | 30 ÷ 5 = ___ |
| 40 ÷ ___ = 5 | 50 ÷ ___ = 5 | 45 ÷ ___ = 5 |

# Metric Measurements

| Length | |
|---|---|
| 1 km | _____ m |
| 5 km | _____ m |
| 3 km 160 m | _____ m |
| 8 km 10 m | _____ m |
| 12 km 9 m | _____ m |

| Mass | |
|---|---|
| 1 kg | _____ g |
| 8 kg | _____ g |
| 13 kg 212 g | _____ g |
| 23 kg 9 g | _____ g |
| 203 kg 71 g | _____ g |

| Capacity | |
|---|---|
| 1 L | _____ mL |
| 12 L | _____ mL |
| 300 L 5 mL | _____ mL |
| 18 L 62 mL | _____ mL |
| 9 L 1 mL | _____ mL |

# Fluency: 6's

| | | |
|---|---|---|
| 6 x 1 = ___ | 6 x 2 = ___ | 6 x 3 = ___ |
| 6 x 4 = ___ | 6 x 5 = ___ | 6 x 6 = ___ |
| 6 x 7 = ___ | 6 x 8 = ___ | 6 x 9 = ___ |
| 6 x 10 = ___ | 6 x 6 = ___ | 6 x 8 = ___ |
| 6 x 5 = ___ | 6 x 7 = ___ | 6 x 4 = ___ |
| 6 x ___ = 36 | 6 x ___ = 54 | 6 x ___ = 30 |
| 6 x ___ = 42 | 18 ÷ 6 = ___ | 30 ÷ 6 = ___ |
| 36 ÷ ___ = 6 | 42 ÷ ___ = 6 | 48 ÷ ___ = 6 |

# Beachy Keen!

1. At the beach, there are 224 people swimming.  There are 3 times as many people laying in the sand.  How many people are at the beach in total?

2. The hot dog stand has made $1,239 so far today.  The ice cream stand has made 4 times as much money as the hot dog stand. The souvenir shop has made $419 less than the ice cream stand. How much money has the souvenir shop made today?

# Fluency: 7's

| | | |
|---|---|---|
| 7 x 1= ___ | 7 x 2 = ___ | 7 x 3 = ___ |
| 7 x 4 = ___ | 7 x 5 = ___ | 7 x 6 = ___ |
| 7 x 7 = ___ | 7 x 8 = ___ | 7 x 9 = ___ |
| 7 x 10 = ___ | 7 x 6 = ___ | 7 x 8 = ___ |
| 7 x 5 = ___ | 7 x 7 = ___ | 7 x 4 = ___ |
| 7 x ___ = 42 | 7 x ___ = 56 | 7 x ___ = 49 |
| 7 x ___ = 35 | 28 ÷ 7 = ___ | 21 ÷ 7 = ___ |
| 56 ÷ ___ = 7 | 63 ÷ ___ = 7 | 35 ÷ ___ = 7 |

# Factors and Multiples

Complete the table.

| Number | Multiplication Sentences | Factors | Prime or Composite |
|---|---|---|---|
| 18 | 1 x 18 = 18, 2 x 9 = 18, 3 x 6 = 18 | 1, 2, 3, 6, 9, 18 | Composite |
| 12 | | | |
| 9 | | | |
| 13 | | | |
| 20 | | | |
| 24 | | | |

Write the multiples of 5 starting from 70.

70, _____, _____, _____, _____, _____, _____, _____, _____

Write the multiples of 8 starting from 56.

56, _____, _____, _____, _____, _____, _____, _____, _____

# Fluency: 8's

| | | |
|---|---|---|
| 8 x 1= ___ | 8 x 2 = ___ | 8 x 3 = ___ |
| 8 x 4 = ___ | 8 x 5 = ___ | 8 x 6 = ___ |
| 8 x 7 = ___ | 8 x 8 = ___ | 8 x 9 = ___ |
| 8 x 10 = ___ | 8 x 6 = ___ | 8 x 8 = ___ |
| 8 x 7 = ___ | 8 x 5 = ___ | 8 x 4 = ___ |
| 8 x ___ = 56 | 8 x ___ = 40 | 8 x ___ = 48 |
| 8 x ___ = 64 | 24 ÷ 8 = ___ | 32 ÷ 8 = ___ |
| 56 ÷ ___ = 8 | 40 ÷ ___ = 8 | 72 ÷ ___ = 8 |

# Division Time!

Divide and find the remainder, then check your work with multiplication.

3,201 ÷ 2 =

2,417 ÷ 3 =

809 ÷ 5 =

# Fluency: 9's

9 x 1= ___

9 x 2 = ___

9 x 3 = ___

9 x 4 = ___

9 x 5 = ___

9 x 6 = ___

9 x 7 = ___

9 x 8 = ___

9 x 9 = ___

9 x 10 = ___

9 x 6 = ___

9 x 8 = ___

9 x 7 = ___

9 x 5 = ___

9 x 4 = ___

9 x ___ = 63

9 x ___ = 45

9 x ___ = 54

9 x ___ = 72

36 ÷ 9 = ___

27 ÷ 9 = ___

81 ÷ ___ = 9

72 ÷ ___ = 9

45 ÷ ___ = 9

# Angle Tangle

## Write an equation and solve for the unknown angles

B

C

63°  $x°$  51°

A ———————————— D
O
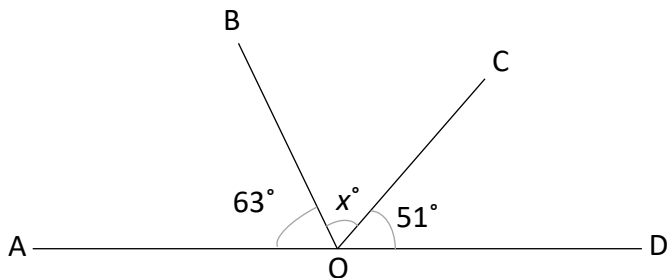
∠AOD is a straight angle.
Solve for the measurement of ∠BOC.

$x° =$ _____

---

Solve for the measurement of ∠FOG.

E

140°  F

68°  O

$y°$

G

$y° =$ _____

---
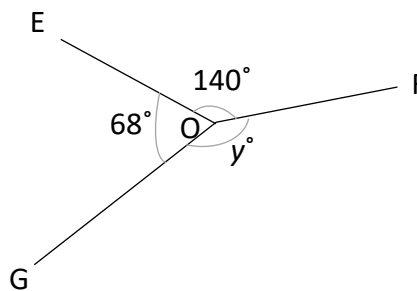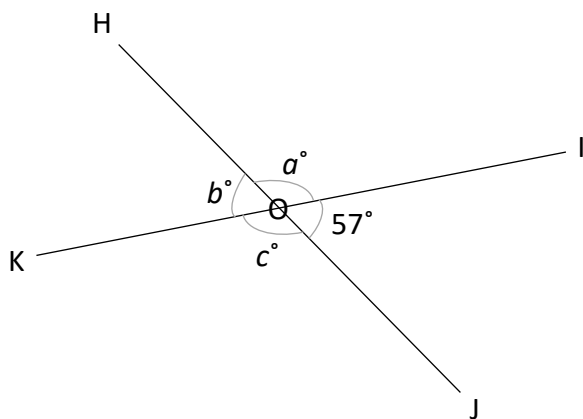
∠HOJ and ∠KOI are straight angles.
Solve for the measurements of ∠HOI,
∠HOK, and ∠KOJ.

H

$a°$

$b°$  I

O  57°

K

$c°$

J

$a° =$ _____  $b° =$ _____  $c° =$ _____

# Fluency: 7',s 8's, and 9's

| | | |
|---|---|---|
| 9 x 6 = ___ | 9 x 7 = ___ | 9 x 8 = ___ |
| 8 x 8 = ___ | 8 x 7 = ___ | 8 x 6 = ___ |
| 7 x 6 = ___ | 7 x 7 = ___ | 7 x 8 = ___ |
| 8 x 5 = ___ | 9 x 3 = ___ | 7 x 4 = ___ |
| 9 x 9 = ___ | 7 x 5 = ___ | 8 x 3 = ___ |
| 9 x ___ = 63 | 8 x ___ = 64 | 7 x ___ = 35 |
| 9 x ___ = 81 | 42 ÷ 7 = ___ | 56 ÷ 8 = ___ |
| 72 ÷ ___ = 9 | 48 ÷ ___ = 8 | 49 ÷ ___ = 7 |

# Comparing Fractions

Use < , > , or = to compare. Use words, pictures, or numbers to show how you know.

$\dfrac{9}{4}$ ◯ $\dfrac{10}{5}$

$\dfrac{2}{3}$ ◯ $\dfrac{6}{14}$

$2\dfrac{3}{8}$ ◯ $2\dfrac{3}{10}$

$\dfrac{4}{8}$ ◯ $\dfrac{10}{20}$

$\dfrac{19}{6}$ ◯ $\dfrac{15}{5}$

$\dfrac{10}{10}$ ◯ $1\dfrac{1}{100}$

# Fluency: 5's

| | | |
|---|---|---|
| 5 x 1= ___ | 5 x 2 = ___ | 5 x 3 = ___ |
| 5 x 4 = ___ | 5 x 5 = ___ | 5 x 6 = ___ |
| 5 x 7 = ___ | 5 x 8 = ___ | 5 x 9 = ___ |
| 5 x 10 = ___ | 5 x 8 = ___ | 5 x 10 = ___ |
| 5 x 9 = ___ | 5 x 7 = ___ | 5 x 6 = ___ |
| 5 x ___ = 45 | 5 x ___ = 50 | 5 x ___ = 40 |
| 5 x ___ = 25 | 30 ÷ 5 = ___ | 35 ÷ 5 = ___ |
| 45 ÷ ___ = 5 | 20 ÷ ___ = 5 | 15 ÷ ___ = 5 |

# Mixing It Up!

Convert each fraction to a mixed number.

$$\frac{9}{5} = \underline{\hspace{1.5cm}}$$

$$\frac{19}{4} = \underline{\hspace{1.5cm}}$$

$$\frac{72}{10} = \underline{\hspace{1.5cm}}$$

$$\frac{37}{9} = \underline{\hspace{1.5cm}}$$

Convert each mixed number to a fraction.

$$2\frac{3}{4} = \underline{\hspace{1.5cm}}$$

$$5\frac{6}{8} = \underline{\hspace{1.5cm}}$$

$$6\frac{2}{9} = \underline{\hspace{1.5cm}}$$

$$4\frac{8}{10} = \underline{\hspace{1.5cm}}$$

# Fluency: 6's

| | | |
|---|---|---|
| 6 x 1= ___ | 6 x 2 = ___ | 6 x 3 = ___ |
| 6 x 4 = ___ | 6 x 5 = ___ | 6 x 6 = ___ |
| 6 x 7 = ___ | 6 x 8 = ___ | 6 x 9 = ___ |
| 6 x 10 = ___ | 6 x 8 = ___ | 6 x 10 = ___ |
| 6 x 7 = ___ | 6 x 9 = ___ | 6 x 6 = ___ |
| 6 x ___ = 48 | 6 x ___ = 60 | 6 x ___ = 42 |
| 6 x ___ = 54 | 30 ÷ 6 = ___ | 36 ÷ 6 = ___ |
| 18 ÷ ___ = 6 | 24 ÷ ___ = 6 | 12 ÷ ___ = 6 |

# Birthday Celebration!

1. At Maya's birthday party, the kids eat $1\frac{2}{3}$ pints of vanilla ice cream, and 4 times as many pints of chocolate ice cream.  How many pints of ice cream do they eat in all?

2. They also have pizza!  They eat $2\frac{3}{8}$ cheese pizzas, and 3 times as many pepperoni pizzas.  How many more pepperoni pizzas do they eat than cheese pizzas?

# Fluency: 7's

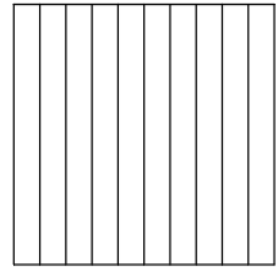| | | |
|---|---|---|
| 7 x 1= ___ | 7 x 2 = ___ | 7 x 3 = ___ |
| 7 x 4 = ___ | 7 x 5 = ___ | 7 x 6 = ___ |
| 7 x 7 = ___ | 7 x 8 = ___ | 7 x 9 = ___ |
| 7 x 10 = ___ | 7 x 8 = ___ | 7 x 10 = ___ |
| 7 x 7 = ___ | 7 x 9 = ___ | 7 x 6 = ___ |
| 7 x ___ = 56 | 7 x ___ = 49 | 7 x ___ = 70 |
| 7 x ___ = 42 | 35 ÷ 7 = ___ | 28 ÷ 7 = ___ |
| 63 ÷ ___ = 7 | 21 ÷ ___ = 7 | 14 ÷ ___ = 7 |

# It's Equivalent!

Find the equivalent fraction and shade the area models to show your thinking.

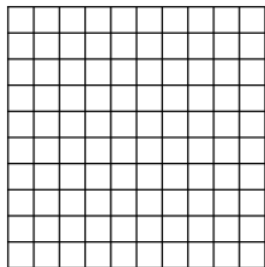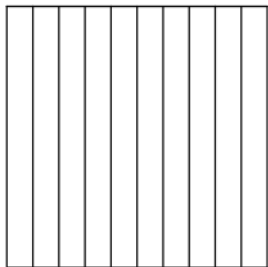$$\frac{6}{10} = \frac{}{100}$$
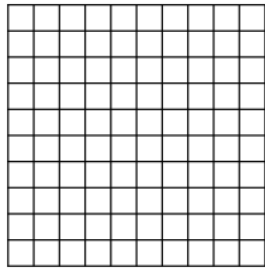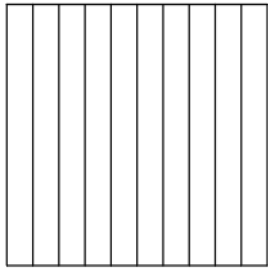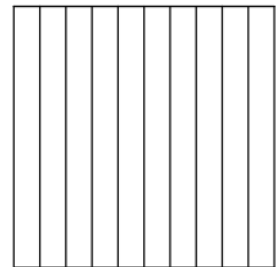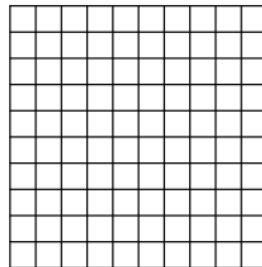
$$\frac{40}{100} = \frac{}{10}$$
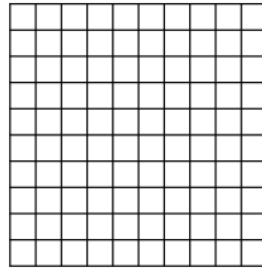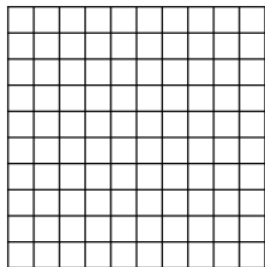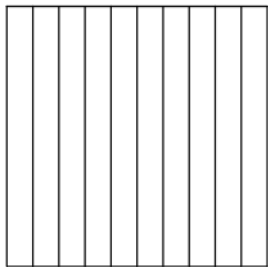
$$\frac{9}{10} = \frac{}{100}$$

$$\frac{30}{100} = \frac{}{10}$$

$$\frac{1}{10} = \frac{}{100}$$

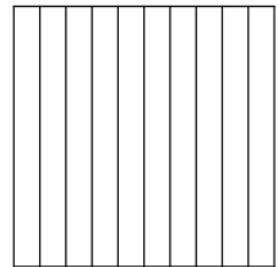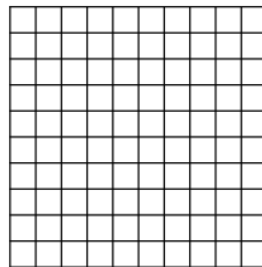$$\frac{50}{100} = \frac{}{10}$$

# Fluency: 8's

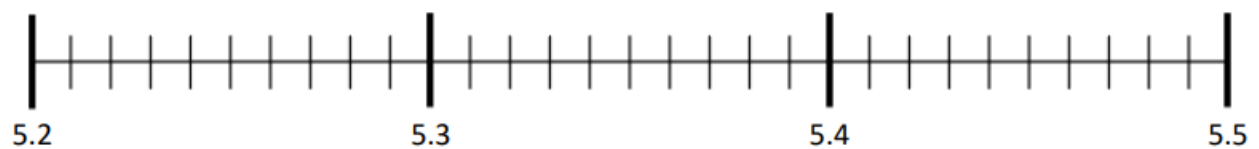| | | |
|---|---|---|
| 8 x 1= ___ | 8 x 2 = ___ | 8 x 3 = ___ |
| 8 x 4 = ___ | 8 x 5 = ___ | 8 x 6 = ___ |
| 8 x 7 = ___ | 8 x 8 = ___ | 8 x 9 = ___ |
| 8 x 10 = ___ | 8 x 8 = ___ | 8 x 10 = ___ |
| 8 x 9 = ___ | 8 x 7 = ___ | 8 x 6 = ___ |
| 8 x ___ = 72 | 8 x ___ = 56 | 8 x ___ = 64 |
| 8 x ___ = 80 | 32 ÷ 8 = ___ | 40 ÷ 8 = ___ |
| 48 ÷ ___ = 8 | 32 ÷ ___ = 8 | 24 ÷ ___ = 8 |

# Number Line Challenge

Plot the points on the number lines in decimal form.

$$0.53, \quad \frac{4}{10}, \quad 0.32, \quad \frac{58}{100}, \quad \frac{49}{100}$$

```
|——+—+—+—+—+—+—+—+—+—|——+—+—+—+—+—+—+—+—+—|——+—+—+—+—+—+—+—+—+—|
0.3                  0.4                  0.5                  0.6
```

$$5.31, \quad \frac{54}{10}, \quad 5 \text{ ones and 2 tenths}, \quad \frac{548}{100}, \quad 5\frac{24}{100}$$

```
|——+—+—+—+—+—+—+—+—+—|——+—+—+—+—+—+—+—+—+—|——+—+—+—+—+—+—+—+—+—|
5.2                  5.3                  5.4                  5.5
```

$$800 \text{ hundredths}, \quad \frac{78}{10}, \quad 7.97, \quad \frac{806}{100}, \quad 7\frac{9}{10}$$

```
|——+—+—+—+—+—+—+—+—+—|——+—+—+—+—+—+—+—+—+—|——+—+—+—+—+—+—+—+—+—|
7.8                  7.9                  8.0                  8.1
```

# Fluency: 9's

| | | |
|---|---|---|
| 9 x 1= ___ | 9 x 2 = ___ | 9 x 3 = ___ |
| 9 x 4 = ___ | 9 x 5 = ___ | 9 x 6 = ___ |
| 9 x 7 = ___ | 9 x 8 = ___ | 9 x 9 = ___ |
| 9 x 10 = ___ | 9 x 8 = ___ | 9 x 10 = ___ |
| 9 x 9 = ___ | 9 x 7 = ___ | 9 x 6 = ___ |
| 9 x ___ = 81 | 9 x ___ = 90 | 9 x ___ = 72 |
| 9 x ___ = 63 | 45 ÷ 9 = ___ | 54 ÷ 9 = ___ |
| 27 ÷ ___ = 9 | 36 ÷ ___ = 9 | 18 ÷ ___ = 9 |

# Add It Up

Find the sum and write your answer as a decimal.

$\dfrac{3}{10} + \dfrac{8}{100} =$

$\dfrac{15}{100} + \dfrac{2}{10} =$

$\dfrac{90}{100} + \dfrac{1}{10} =$

$\dfrac{6}{10} + \dfrac{60}{100} =$

$\dfrac{32}{100} + \dfrac{9}{10} =$

$\dfrac{78}{100} + \dfrac{7}{10} =$

# Fluency: 7',s 8's, and 9's

| | | |
|---|---|---|
| 9 x 8 = ___ | 9 x 9 = ___ | 9 x 7 = ___ |
| 8 x 9 = ___ | 8 x 8 = ___ | 8 x 7 = ___ |
| 7 x 8 = ___ | 7 x 9 = ___ | 7 x 7 = ___ |
| 8 x 7 = ___ | 9 x 5 = ___ | 7 x 6 = ___ |
| 9 x 10 = ___ | 7 x 7 = ___ | 8 x 5 = ___ |
| 9 x ___ = 72 | 8 x ___ = 56 | 7 x ___ = 42 |
| 9 x ___ = 63 | 49 ÷ 7 = ___ | 48 ÷ 8 = ___ |
| 36 ÷ ___ = 9 | 40 ÷ ___ = 8 | 56 ÷ ___ = 7 |

# Movies, Movies, Movies

1. At the movie theater, the previews last $\frac{1}{4}$ hour. The movie lasts 6 times as long as the previews. How many minutes do the previews and movie last altogether?

2. The large soda holds $5\frac{7}{8}$ cups of soda. The medium soda holds 1 quart of soda. How many more cups of soda are in the large soda than the medium soda?

# Fluency: 7's, 8's, and 9's

| | | |
|---|---|---|
| 9 x 7 = ___ | 9 x 9 = ___ | 9 x 8 = ___ |
| 8 x 8 = ___ | 8 x 9 = ___ | 8 x 7 = ___ |
| 7 x 6 = ___ | 7 x 8 = ___ | 7 x 9 = ___ |
| 8 x 9 = ___ | 9 x 7 = ___ | 7 x 8 = ___ |
| 9 x 2 = ___ | 7 x 9 = ___ | 8 x 6 = ___ |
| 9 x ___ = 45 | 8 x ___ = 40 | 7 x ___ = 63 |
| 9 x ___ = 63 | 56 ÷ 7 = ___ | 56 ÷ 8 = ___ |
| 72 ÷ ___ = 9 | 64 ÷ ___ = 8 | 28 ÷ ___ = 7 |