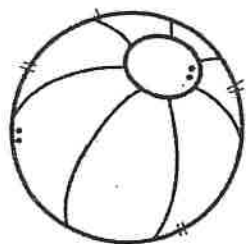


Summer



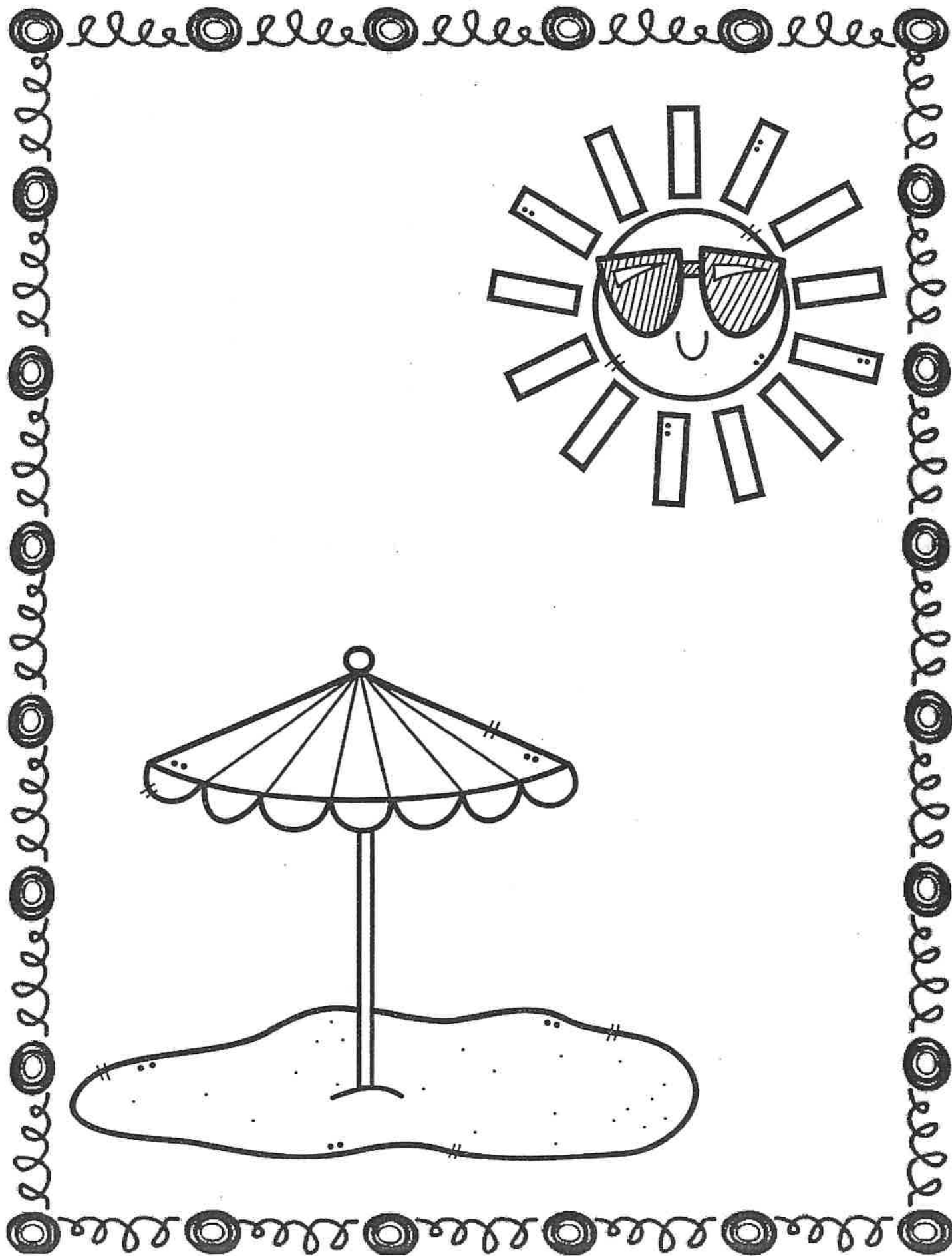
Break Math



Packet!

Name _____

Directions: Complete this packet over the summer to become a better mathematician!



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

$2 \times 1 = \underline{\quad}$

$2 \times 2 = \underline{\quad}$

$2 \times 3 = \underline{\quad}$

$2 \times 4 = \underline{\quad}$

$2 \times 5 = \underline{\quad}$

$2 \times 6 = \underline{\quad}$

$2 \times 7 = \underline{\quad}$

$2 \times 8 = \underline{\quad}$

$2 \times 9 = \underline{\quad}$

$2 \times 10 = \underline{\quad}$

$2 \times 8 = \underline{\quad}$

$2 \times 10 = \underline{\quad}$

$2 \times 9 = \underline{\quad}$

$2 \times 7 = \underline{\quad}$

$2 \times 6 = \underline{\quad}$

$2 \times \underline{\quad} = 16$

$2 \times \underline{\quad} = 10$

$2 \times \underline{\quad} = 14$

$2 \times \underline{\quad} = 12$

$14 \div 2 = \underline{\quad}$

$8 \div 2 = \underline{\quad}$

$16 \div \underline{\quad} = 2$

$12 \div \underline{\quad} = 2$

$18 \div \underline{\quad} = 2$

Comparing Numbers

Use $<$, $>$, or $=$ to compare.

$$231,201 \bigcirc 24,999$$

$$211,000 \bigcirc 40,000$$

$$180,281 \bigcirc 180,209$$

$$9,028 \bigcirc 9,208$$

$$5,200 \bigcirc 5,199$$

$$50 + 40,000 \bigcirc 40,500$$

$$11,190 \bigcirc 100,000$$

$$182,304 \bigcirc 391,391$$

$$5 \text{ tens and } 30 \text{ hundreds} \bigcirc 3,005$$

$$14,000 \bigcirc 41,000$$

$$918,301 \bigcirc 90,000 + 9,000$$

$$2,000 \bigcirc \text{ten thousand}$$

Fluency: 3's

$3 \times 1 = \underline{\quad}$

$3 \times 2 = \underline{\quad}$

$3 \times 3 = \underline{\quad}$

$3 \times 4 = \underline{\quad}$

$3 \times 5 = \underline{\quad}$

$3 \times 6 = \underline{\quad}$

$3 \times 7 = \underline{\quad}$

$3 \times 8 = \underline{\quad}$

$3 \times 9 = \underline{\quad}$

$3 \times 10 = \underline{\quad}$

$3 \times 8 = \underline{\quad}$

$3 \times 10 = \underline{\quad}$

$3 \times 9 = \underline{\quad}$

$3 \times 7 = \underline{\quad}$

$3 \times 6 = \underline{\quad}$

$3 \times \underline{\quad} = 21$

$3 \times \underline{\quad} = 24$

$3 \times \underline{\quad} = 18$

$3 \times \underline{\quad} = 15$

$9 \div 3 = \underline{\quad}$

$12 \div 3 = \underline{\quad}$

$27 \div \underline{\quad} = 3$

$24 \div \underline{\quad} = 3$

$21 \div \underline{\quad} = 3$

Round 'Em Up!

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

$58,000 \approx \underline{\hspace{2cm}}$

$612,391 \approx \underline{\hspace{2cm}}$

$44,998 \approx \underline{\hspace{2cm}}$

$851,019 \approx \underline{\hspace{2cm}}$

$398,011 \approx \underline{\hspace{2cm}}$

$490,999 \approx \underline{\hspace{2cm}}$

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

$58,000 \approx \underline{\hspace{2cm}}$

$612,391 \approx \underline{\hspace{2cm}}$

$44,998 \approx \underline{\hspace{2cm}}$

$851,019 \approx \underline{\hspace{2cm}}$

$398,011 \approx \underline{\hspace{2cm}}$

$490,999 \approx \underline{\hspace{2cm}}$

Fluency: 4's

$4 \times 1 = \underline{\quad}$

$4 \times 2 = \underline{\quad}$

$4 \times 3 = \underline{\quad}$

$4 \times 4 = \underline{\quad}$

$4 \times 5 = \underline{\quad}$

$4 \times 6 = \underline{\quad}$

$4 \times 7 = \underline{\quad}$

$4 \times 8 = \underline{\quad}$

$4 \times 9 = \underline{\quad}$

$4 \times 10 = \underline{\quad}$

$4 \times 6 = \underline{\quad}$

$4 \times 8 = \underline{\quad}$

$4 \times 7 = \underline{\quad}$

$4 \times 5 = \underline{\quad}$

$4 \times 4 = \underline{\quad}$

$4 \times \underline{\quad} = 32$

$4 \times \underline{\quad} = 24$

$4 \times \underline{\quad} = 20$

$4 \times \underline{\quad} = 28$

$16 \div 4 = \underline{\quad}$

$24 \div 4 = \underline{\quad}$

$32 \div \underline{\quad} = 4$

$28 \div \underline{\quad} = 4$

$12 \div \underline{\quad} = 4$

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

$5 \times 1 = \underline{\quad}$

$5 \times 2 = \underline{\quad}$

$5 \times 3 = \underline{\quad}$

$5 \times 4 = \underline{\quad}$

$5 \times 5 = \underline{\quad}$

$5 \times 6 = \underline{\quad}$

$5 \times 7 = \underline{\quad}$

$5 \times 8 = \underline{\quad}$

$5 \times 9 = \underline{\quad}$

$5 \times 10 = \underline{\quad}$

$5 \times 6 = \underline{\quad}$

$5 \times 8 = \underline{\quad}$

$5 \times 7 = \underline{\quad}$

$5 \times 5 = \underline{\quad}$

$5 \times 4 = \underline{\quad}$

$5 \times \underline{\quad} = 35$

$5 \times \underline{\quad} = 40$

$5 \times \underline{\quad} = 30$

$5 \times \underline{\quad} = 15$

$20 \div 5 = \underline{\quad}$

$30 \div 5 = \underline{\quad}$

$40 \div \underline{\quad} = 5$

$50 \div \underline{\quad} = 5$

$45 \div \underline{\quad} = 5$

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

$6 \times 1 = \underline{\quad}$

$6 \times 2 = \underline{\quad}$

$6 \times 3 = \underline{\quad}$

$6 \times 4 = \underline{\quad}$

$6 \times 5 = \underline{\quad}$

$6 \times 6 = \underline{\quad}$

$6 \times 7 = \underline{\quad}$

$6 \times 8 = \underline{\quad}$

$6 \times 9 = \underline{\quad}$

$6 \times 10 = \underline{\quad}$

$6 \times 6 = \underline{\quad}$

$6 \times 8 = \underline{\quad}$

$6 \times 5 = \underline{\quad}$

$6 \times 7 = \underline{\quad}$

$6 \times 4 = \underline{\quad}$

$6 \times \underline{\quad} = 36$

$6 \times \underline{\quad} = 54$

$6 \times \underline{\quad} = 30$

$6 \times \underline{\quad} = 42$

$18 \div 6 = \underline{\quad}$

$30 \div 6 = \underline{\quad}$

$36 \div \underline{\quad} = 6$

$42 \div \underline{\quad} = 6$

$48 \div \underline{\quad} = 6$

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

$7 \times 1 = \underline{\quad}$

$7 \times 2 = \underline{\quad}$

$7 \times 3 = \underline{\quad}$

$7 \times 4 = \underline{\quad}$

$7 \times 5 = \underline{\quad}$

$7 \times 6 = \underline{\quad}$

$7 \times 7 = \underline{\quad}$

$7 \times 8 = \underline{\quad}$

$7 \times 9 = \underline{\quad}$

$7 \times 10 = \underline{\quad}$

$7 \times 6 = \underline{\quad}$

$7 \times 8 = \underline{\quad}$

$7 \times 5 = \underline{\quad}$

$7 \times 7 = \underline{\quad}$

$7 \times 4 = \underline{\quad}$

$7 \times \underline{\quad} = 42$

$7 \times \underline{\quad} = 56$

$7 \times \underline{\quad} = 49$

$7 \times \underline{\quad} = 35$

$28 \div 7 = \underline{\quad}$

$21 \div 7 = \underline{\quad}$

$56 \div \underline{\quad} = 7$

$63 \div \underline{\quad} = 7$

$35 \div \underline{\quad} = 7$

Factors and Multiples

Complete the table.

Number	Multiplication Sentences	Factors	Prime or Composite
18	$1 \times 18 = 18$, $2 \times 9 = 18$, $3 \times 6 = 18$	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

$8 \times 1 = \underline{\quad}$

$8 \times 2 = \underline{\quad}$

$8 \times 3 = \underline{\quad}$

$8 \times 4 = \underline{\quad}$

$8 \times 5 = \underline{\quad}$

$8 \times 6 = \underline{\quad}$

$8 \times 7 = \underline{\quad}$

$8 \times 8 = \underline{\quad}$

$8 \times 9 = \underline{\quad}$

$8 \times 10 = \underline{\quad}$

$8 \times 6 = \underline{\quad}$

$8 \times 8 = \underline{\quad}$

$8 \times 7 = \underline{\quad}$

$8 \times 5 = \underline{\quad}$

$8 \times 4 = \underline{\quad}$

$8 \times \underline{\quad} = 56$

$8 \times \underline{\quad} = 40$

$8 \times \underline{\quad} = 48$

$8 \times \underline{\quad} = 64$

$24 \div 8 = \underline{\quad}$

$32 \div 8 = \underline{\quad}$

$56 \div \underline{\quad} = 8$

$40 \div \underline{\quad} = 8$

$72 \div \underline{\quad} = 8$

Division Time!

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

$$3,201 \div 2 =$$

$$2,417 \div 3 =$$

$$809 \div 5 =$$

Fluency: 9's

$9 \times 1 = \underline{\quad}$

$9 \times 2 = \underline{\quad}$

$9 \times 3 = \underline{\quad}$

$9 \times 4 = \underline{\quad}$

$9 \times 5 = \underline{\quad}$

$9 \times 6 = \underline{\quad}$

$9 \times 7 = \underline{\quad}$

$9 \times 8 = \underline{\quad}$

$9 \times 9 = \underline{\quad}$

$9 \times 10 = \underline{\quad}$

$9 \times 6 = \underline{\quad}$

$9 \times 8 = \underline{\quad}$

$9 \times 7 = \underline{\quad}$

$9 \times 5 = \underline{\quad}$

$9 \times 4 = \underline{\quad}$

$9 \times \underline{\quad} = 63$

$9 \times \underline{\quad} = 45$

$9 \times \underline{\quad} = 54$

$9 \times \underline{\quad} = 72$

$36 \div 9 = \underline{\quad}$

$27 \div 9 = \underline{\quad}$

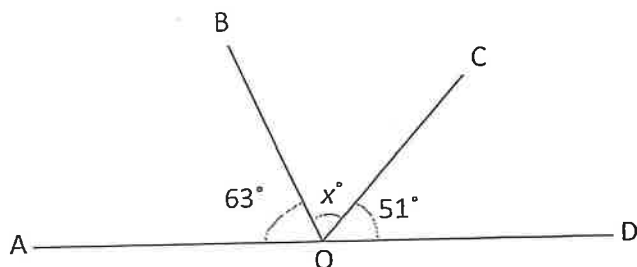
$81 \div \underline{\quad} = 9$

$72 \div \underline{\quad} = 9$

$45 \div \underline{\quad} = 9$

Angle Tangle

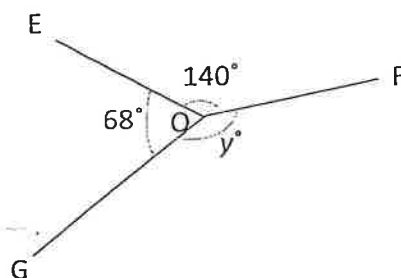
Write an equation and solve for the unknown angles



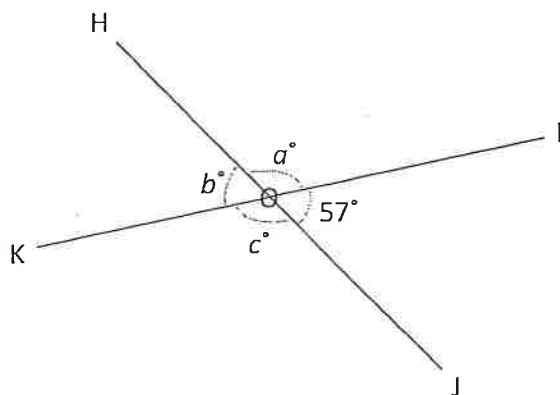
$\angle AOD$ is a straight angle.
Solve for the measurement of $\angle BOC$.

$$x^\circ = \underline{\hspace{2cm}}$$

Solve for the measurement of $\angle FOG$.



$$y^\circ = \underline{\hspace{2cm}}$$



$\angle HOJ$ and $\angle KOI$ are straight angles.
Solve for the measurements of $\angle HOI$,
 $\angle HOK$, and $\angle KOJ$.

$$a^\circ = \underline{\hspace{2cm}} \quad b^\circ = \underline{\hspace{2cm}} \quad c^\circ = \underline{\hspace{2cm}}$$

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

$9 \times 6 = \underline{\quad}$

$9 \times 7 = \underline{\quad}$

$9 \times 8 = \underline{\quad}$

$8 \times 8 = \underline{\quad}$

$8 \times 7 = \underline{\quad}$

$8 \times 6 = \underline{\quad}$

$7 \times 6 = \underline{\quad}$

$7 \times 7 = \underline{\quad}$

$7 \times 8 = \underline{\quad}$

$8 \times 5 = \underline{\quad}$

$9 \times 3 = \underline{\quad}$

$7 \times 4 = \underline{\quad}$

$9 \times 9 = \underline{\quad}$

$7 \times 5 = \underline{\quad}$

$8 \times 3 = \underline{\quad}$

$9 \times \underline{\quad} = 63$

$8 \times \underline{\quad} = 64$

$7 \times \underline{\quad} = 35$

$9 \times \underline{\quad} = 81$

$42 \div 7 = \underline{\quad}$

$56 \div 8 = \underline{\quad}$

$72 \div \underline{\quad} = 9$

$48 \div \underline{\quad} = 8$

$49 \div \underline{\quad} = 7$