

Grade: 4 Practice Worksheets

Domain Name: Operations & Algebraic Thinking

1. Estimate the difference. Round each number to the nearest ten and then subtract.

$$243 - 127$$

- 120
- 100
- 110
- 130

2. Estimate the sum. Round each number to the nearest hundred and then add.

$$509 + 261$$

- 900
- 950
- 1,000
- 800

3. In their stamp collections, Marlee has 62 stamps, Xavier has 56 stamps, Nicki has 48 stamps, and Cameron has 89 stamps. Estimate how many stamps they would have if they combined their collections by rounding to the nearest ten first and then adding the rounded numbers.

stamps

4. The number of people that each day entered a sweepstake during one business week:

Day	People
Monday	323
Tuesday	203
Wednesday	473
Thursday	498
Friday	602

Estimate how many people entered the sweepstake during the week by rounding to the nearest hundred first and then adding the rounded numbers.

people

5. Fill in the factor:

$$\text{[]} \times 2 = 78$$

6. Fill in the factor:

$$7 \times \text{[]} = 35$$

7. Fill in the factor:

$$\text{[]} \times 9 = 63$$

8. Find the missing factor in the factor pair of 100.

$$10 \times = 100$$

9. Which numbers are prime numbers? Check all that are true.

- 3
- 4
- 6
- 5
- 7
- none of the above

10. Which are factor pairs of 16?

- 4×4 and 2×8
- 4×1 and 1×16
- 1×4 and 1×16
- 4×4 and 1×4
- none of the above

11. To find the greatest common factor for 12 and 18:

Twelve is even so 2 is a factor. $1 \times 12 = 12$

$$2 \times = 12$$

12. Which multiplicative comparison statements describe the equation:

$3 \times 12 = 36$ Check all that are true.

- 3 is 12 times as many as 36
- 36 is 12 times as many as 3
- 36 is 3 times as many as 12
- 12 is 36 times as many as 3
- 12 is 3 times as many as 36

13. The long climbing rope is 100 feet long. The long climbing rope is ten times longer than the shorter safety rope. How many feet of rope is the shorter safety rope?
feet

14. Estimate by rounding both numbers to hundreds and then multiplying.

281×391 is approximately

15. Estimate by rounding both numbers to hundreds and then divide.

$997 \div 122$ is approximately

16. Tony's Pizza made 36 pizzas today. If each pizza contains 12 slices, estimate how many slices of pizza Tony's Pizza Place made by rounding both numbers to the nearest ten.
slices

17. There are 39 people on a kayaking trip. If each kayak holds 2 people, estimate how many kayaks are needed by rounding the larger number to the nearest ten kayaks

18. Francine walked a total distance of 15 miles in two days. If she walked a distance of 8 miles the first day, how many miles did she walk on the second day?

- m = 15 miles
- m = 6 miles
- m = 8 miles
- m = 7 miles

19. A teacher offers her students 2 prizes when they get perfect scores on their spelling quizzes. If one of her students gets a perfect score on 5 of the quizzes and already has 4 prizes, how many prizes in total does this student have?

p = prizes

20. Each baseball team has nine players and each football team has eleven players. Five schools have both baseball and football teams. Three schools have only a baseball team. How many players are there for all eight schools?

players

21. A train has 3 passenger cars and each car has 4 columns of seats and each column holds 40 passengers. If one of the cars has 15 people standing in addition to all of the sitting passengers, and the rest of the cars are full without anyone standing, how many passengers are on the train?

Which of the following sets of equations correctly represents this situation?

- Number of seats per car: $40 \div 4 = 10$
Total number of seats: $10 \times 3 = 30$
Number of passengers: $30 - 15 = p$
- Number of seats per car: $4 \times 40 = 160$
Total number of seats: $160 \times 3 = 480$
Number of passengers: $480 + 15 = p$
- Number of seats per car: $4 \times 40 = 160$
Total number of seats: $160 \times 3 = 480$
Number of passengers: $480 - 15 = p$
- Number of seats per car: $40 \div 4 = 10$
Total number of seats: $10 \times 3 = 30$
Number of passengers: $30 + 15 = p$

22. Candice is learning to hula hoop. She starts out with 1 hula hoop and adds another. She then adds another 3 hula hoops. She then triples the number of hula hoops she is using. She then doubles that number of hula hoops. How many hula hoops is she now hula hooping with?

hula hoops

23. Carl wants to put up a glow-in-the-dark sticker display on his bedroom ceiling. He needs a gallon of black paint which costs \$12. The stickers cost \$18 per package and he wants to buy 2 packages. Which of the following is a good estimation of how much change Carl will get back if he gives the cashier \$60?

- \$0
- \$10
- \$20
- \$30
- \$40

24. You are at a restaurant and you remember the prices on the menu, but you can't quite figure out how much everything will cost with the tax. Should you estimate or calculate the exact amount of money you need to pay before the bill comes to the table?

- exact
- estimate

25. There are going to be presentations at a school. If 30 people can fit in a room, how many rooms are necessary if there are a total of 40 people going to the presentations?
rooms

26. A boy and his younger sister are at the arcade but they only have enough money for one game of skee ball. If they get to play 9 balls, which of the following best describes how the girl and her brother might share the balls?

- The boy gets to play 5 balls. The younger sister gets to play 5 balls.
- The boy gets to play 4 balls. The younger sister gets to play 5 balls.
- The boy gets to play 5 balls. The younger sister gets to play 6 balls.
- The boy gets to play 3 balls. The younger sister gets to play 4 balls.

27. There are 25 gummy worms that 3 friends are going to split. How many gummy worms does each friend get? Choose the correct answer from the choices below.

- 7 [Equation] gummy worms per friend
- 8 [Equation] gummy worms per friend
- 8 [Equation] gummy worms per friend
- 7 [Equation] gummy worms per friend
- 7 [Equation] gummy worms per friend

28. There are 5 kids who want to start a game of Red Rover. Then 12 more kids come to play. If there are 2 teams in Red Rover, which of the following best describes how many kids will be on each team?

- One team will have 10 kids One team will have 11 kids
- One team will have 7 kids One team will have 8 kids
- One team will have 8 kids One team will have 9 kids
- One team will have 9 kids One team will have 10 kids

29. Guess the rule and enter the missing number in the sequence.

17, 19, 21, 23,

30.

31. Guess the rule and add the next number in the sequence.

7, 10, 16, 25, 37,

32. At school, Susie received 4 stickers on Monday, 9 stickers on Tuesday, 14 stickers on Wednesday, and 24 stickers on Friday. If this pattern were followed all week, how many stickers did Susie receive on Thursday?

stickers

33. The fourth-grade class is taking a field trip. If there are 391 fourth graders and each bus seats 100 people, estimate the number of buses needed. Round the number of students to the nearest hundred.

buses

34. The shortest living man on Earth is 21 inches tall. The tallest living woman on Earth is approximately 4 times taller than the shortest man. How tall is the tallest living woman on Earth?

inches

35. The long climbing rope is 100 feet long. The long climbing rope is ten times longer than the shorter safety rope. How many feet of rope is the shorter safety rope?

feet

Domain Name: Number and Operations in Base 10?

Question1:

London inherited \$ 823,000. If she wants to donate a tenth of her inheritance to charities, how much should she donate?

\$

Question2:

A corporate building has 110 offices. If each floor has 10 offices, how many floors does the building have?

floors

Question3:

Solve:

hundred thousands = 5000 hundreds

Question4:

There are 100 sections of seats at a concert. If each section has 520 seats, how many people can be seated?

people

Question5:

Round 1,296 to the nearest thousands place:

Question6:

Round 47,624 to the nearest ten thousands place:

Question7:

Write the following expanded number in standard notation.

$$40,000 + 3,000 + 300 + 10 + 3 =$$

Question8:

Round to the nearest ten and then add the rounded numbers.

$$\begin{array}{r} \boxed{} \boxed{} 89 \\ +237 \\ \hline \boxed{} \end{array}$$

Question9:

Marcus has 824 marbles and wants to put marbles into 5 bags to give as gifts. Marcus knows he cannot divide the marbles evenly, but he wants to use as many of the marbles as possible, while making sure there is the same amount in each bag. How many marbles will be in each bag?

marbles

Question10:

Round to the nearest hundred and then subtract the rounded numbers.

$$\begin{array}{r} \boxed{} \\ - 288 \\ \hline \boxed{} \end{array} \quad 5391$$

Question11:

Drag the numbers below to create:

Seven hundred three thousand, eight hundred fifteen

Question12:

Estimate 48×27 by rounding to the tens place and multiply :

X

Question13:

Which number does the highlighted digit represent?

Question14:

Determine if each number is correctly written in expanded form.

Question15:

Compare.

321,098 is 321,198

Question16:

Write the numbers in order from least to greatest.
45743, 45621, 45211, 45620

< < <

Question17:

Subtract.

$$\begin{array}{r} 7943 \\ - 3132 \\ \hline \end{array}$$

Question18:

The founding dates of various countries are shown below:

Order the founding dates from the oldest to the most recent.

- 1810 < 1821 < 1950 < 1961 < 2003
- 1821 < 1810 < 1950 < 1961 < 2003
- 2003 < 1821 < 1810 < 1961 < 1950
- 1810 < 1821 < 1961 < 1950 < 2003
- 2003 < 1961 < 1950 < 1821 < 1810

Question19:

The 2009 sales figures for a department store were:

What was the lowest sales figure? \$

What was the highest sales figure? \$

Question20:

Add.

$$\begin{array}{r} 5,745 \\ + 6,273 \\ \hline \end{array}$$

Question21:

Expand the numbers and multiply.

$$\begin{array}{r} 93 = \quad + \\ X \quad 6 = X \quad 6 \\ \hline = \quad + \end{array}$$

Question22:

Multiply.

Question23:

Multiply the numbers using expanded form.

Question24:

Multiply.

$$\begin{array}{r} \quad 43 \\ X \quad 3 \\ \hline \end{array}$$

Question25:

Multiply.

$$\begin{array}{r} \quad 21 \\ X \quad 9 \\ \hline \end{array}$$

Question26:
Expand the numbers.

Question27:
Multiply.

$$\begin{array}{r} 3,214 \\ \times 2 \\ \hline \end{array}$$

Question28:
Rapunzel's hair grows 3 feet every year. Right now, her hair is 6 feet long. How long will her hair be in 30 years?
Feet

Question29:
Drag the numbers to make each multiplication correct.

Question30:
Riya's hair grows 2 feet every year. Right now, her hair is 4 feet long. How long will her hair be in 20 years?
Feet

Question31:
Multiply:

$$64 \times 24 =$$

Question32:
A gym has 11 rows of elliptical machines with 13 machines in each row. The gym also has 14 rows of treadmills with 12 treadmills in each row. What is the maximum number of people that can use the elliptical machines and the treadmills at the same time?
people

Question33:
Coco the clown evenly shares 50 balloons between 8 children.
Each child receives balloons and balloons remain.

Question34:
Drag the numbers below to the correct multiplication equation.

Question35:
Place a red X over each mistake in this problem.

Question36:
Click the division problems that have a remainder.

Question37:
Check your division answer.
 $(7 \times 5) + 4 =$

Question38:

Multiply:

$$84 \times 34 =$$

Question39:

Check each division problem.

Question40:

Solve the division problem.

Domain Name: Number and Operations - Fractions

1.

Add.

$$\frac{5}{9} + \frac{11}{9} =$$

2.

Molly ate $\frac{1}{4}$ pint of ice-cream. Her sister did not want the last $\frac{2}{4}$ pint of her own ice-cream, so Molly ate it. How much ice-cream did Molly eat?
Pint

3.



What is $\frac{5}{8}$ plus $\frac{2}{8}$?

4.

A cake recipe asked for $\frac{4}{6}$ of a cup of oil, but Brad accidentally poured $\frac{5}{6}$ of a cup of oil into the batter. How much extra oil did Brad pour into the batter?
of a cup

5.

Find the missing number to make these fractions equal.

$$\frac{\quad}{\quad} \frac{\quad}{\quad} \frac{\quad}{\quad} 2 = \frac{10}{100}$$

6.

Add.

$$\frac{\quad}{\quad} \frac{\quad}{\quad} \frac{\quad}{\quad} 2 + \frac{14}{100} = \frac{10}{100}$$

7.

Compare the shaded area in the first circle with the shaded area in the second circle.

- The shaded areas are different.
- The shaded areas are the same.

8.

Divide.

$$4/8 \div 4/4 =$$

9.

Draw blue squares into the bottom rectangle to match the top.



10.

Aiden completed $60/100$ of the dance steps. Louis completed $34/50$ of the dance steps. Who completed the greatest portion of their dance steps?

- Aiden
- They completed an equal number of dance steps.
- Louis

11.

Find the missing number to make these fractions equal.



12.



What is the whole number of this mixed number?

What is the fraction of this mixed number?

13.

Convert the improper fraction to a mixed number.



14.

Convert the fraction to a mixed number.



15.

Fill in the blank.

$19/5$ is _____ $3 \frac{1}{5}$

- >
- <
- =

16.

Compare.

$2/3$ is _____ $5/6$

- >
- <
- =

17.

Which fraction is the smallest?

- [Equation]
- [Equation]
- [Equation]
- [Equation]
- [Equation]

18.

Add.

19.

You added $3\frac{3}{4}$ cups of flour, $1\frac{1}{4}$ cups of oil, and $2\frac{2}{4}$ cups of water to a bowl for a recipe. How many cups did you combine in total?
cups

20.

Izzy's dog is $10\frac{1}{2}$ years old. Paige's dog is 18 months old. How many years older is Izzy's dog?
Years

21.

Which digit is in the tenths place in the number 10.932?

22.

For 8324.1687, which digit is in the thousandths place?

23.

Solve.

$$0.18 = 1 / + 8 /$$

24.

Convert the decimal into a fraction.

$$0.04 = /$$

25.

Fill in the blank.

4.96 is _____ 4.891

- Greater than
- Less than
- Equal to

26.

Convert the tenths fraction into a decimal.

$$4/10 =$$

27.

Ruby went shopping for school supplies as below.

Which item cost the least?

- Pencils
- Binders
- Dividers
- Backpacks
- Notebooks

28.

Which blue dot represents the decimal 0.3?

- b
- c
- a

- none of the above

29.



Which blue dot represents the decimal 0.94?

- a
- b
- c
- none of the above

30.

Kerry donated $\frac{1}{10}$ of her \$500 savings to a charity. How much money did she donate?
\$

Domain Name: Measurement and Data

1.

Which equals 100 grams?

- 1 gram
- 1 decagram
- 1 hectogram
- 1 kilogram
- none of the above

2.

Which equals 1 milliliter?

- 0.01 liter
- 0.1 liter
- 1 liter
- 0.001 liter
- none of the above

3.

Customary American Units of Length

1 foot = 12 inches
 1 yard = 3 feet or 36 inches
 1 mile = 1,760 yards or 5,280 feet



Convert.

4 feet = inches

4.

Customary American Units of Length

1 foot = 12 inches
 1 yard = 3 feet or 36 inches
 1 mile = 1,760 yards or 5,280 feet



Convert.

5 yards = inches

5.

Today, Noah swam 1 mile at swim practice and Liam sprinted 880 yards at track practice. How many more yards did Noah travel during exercise?
yards

6.

Customary American Units of Weight

1 pound = 16 ounces
1 ton = 2,000 pounds or 32,000 ounces

Convert.

10 tons = pounds

7.

As a puppy, Kim's dog weighed 15 ounces. As an adult, Kim's dog weighs 8 pounds. How many ounces did Kim's dog gain?
ounces

8.



Convert.

2 gallons = quarts

9.

The Ice-Cream Palace received 3 gallons of strawberry ice-cream, 5 pints of mocha ice-cream, and 1 quart of vanilla ice-cream today. How many pints of ice-cream did they receive?
pints

10.

Convert.

4 decimeters = centimeters

11.

Anthony, who is 2 meters tall, is standing on top of a skyscraper that is 1 km tall. How many meters is it from the top of Anthony's head to the bottom of the skyscraper?
meters

12.

Convert.

6 decigrams = milligrams

13.

Convert.

5 metric tons = kilograms

14.

A certain elevator has a maximum weight capacity of 1,000 kilograms. Ten people weighing a total of 7,000 hectograms get on the elevator. How much more weight can the elevator hold before it reaches its maximum capacity?
hectograms

15.

Kate shakes a 2 liter bottle of soda, and 60 centiliters of the soda sprays out of the bottle. How much soda is left in the bottle?
centiliters

16.

Subtract.

5 lb. 10 oz. – 3 lb. 1 oz. = lb. oz.

17.

During dance practice, Sasha drank $2\frac{1}{2}$ pints of water, and on the way home she drank $\frac{1}{2}$ cup of water. How much water did she drink in total?

cups and ounces

18.



The area of the rectangle is 70 yd^2 . What is the formula that shows the length of side y ?

- $70 + 10 = y$
- $70 - 10 = y$
- $10y = 70$
- $10 + 10 - 5 - 5 - 70 = y$
- $(70 - 10 \times 2) \div 2 = y$

19.

Elly's room measures 78 inches by 96 inches. Sarah's room measures 66 inches by 108 inches. They want to combine their rooms. How large will the new room be?

square inches

20.



What is the measure of angle d ?

21.

Add.

$5:42 + 2:07 =$:

22.

Paul has a reading assignment and starts reading his book at 3:00 P.M. He reads for 45 minutes and then writes in his reading journal for $\frac{1}{2}$ hour. What time did Paul finish his reading assignment?



: .M.

23.

Compute.

$10:00 - 2:30 =$:

24.

Which are standard times?

Check all that are true.

- 7:26 P.M.
- 0035
- 0721
- 4:45 A.M.
- 2122

25.

Convert to military time.

11:00 A.M. =

26.

Convert to standard time.

1349 = : .M.

27.

Add the following military times.

$$0050 + 0320 =$$

28.

Write the standard time for 1500.

: .M.

29.

Write the military time for 1.00 P.M.

30.

Geoffrey and his babysitter spent 45 minutes eating dinner. If they finished dinner at 8:55 P.M., what time did they start eating?

: P.M.

Domain Name: Geometry

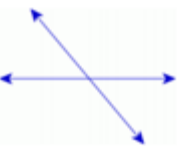
1.



What is this?

- A right angle
- An obtuse angle
- An acute angle
- A straight angle
- none of the above

2.



What is this?

- Perpendicular lines
- A line
- Parallel lines
- Intersecting lines that are not perpendicular

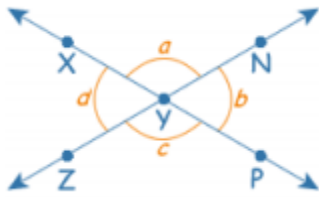
3.



What is this?

- A point
- A line
- A line segment
- A ray
- None of the above

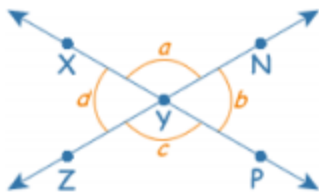
4.



Which of the following is another way to name $\angle c$.

- $\angle ZYX$
- $\angle PYZ$
- $\angle NYP$
- $\angle XYN$

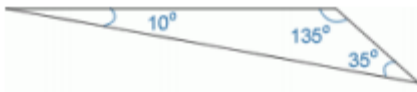
5.



Which of the following is another way to name $\angle NYP$.

- $\angle a$
- $\angle d$
- $\angle c$
- $\angle b$

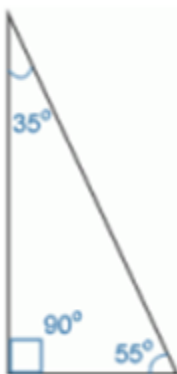
6.



What kind of triangle is this?

- Isosceles triangle
- Equilateral triangle
- Sharp triangle
- Flat triangle
- Scalene triangle

7.

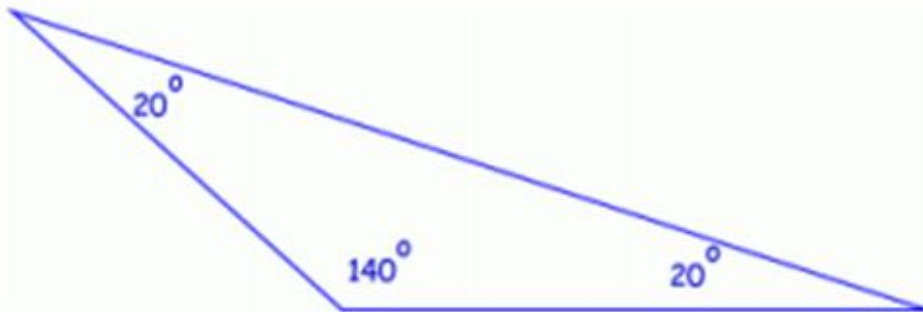


What kind of triangle is this?

- Right triangle

- Acute triangle
- Tall triangle
- Obtuse triangle
- Isosceles triangle

8.



What is this?

Check all that are true.

- Acute triangle
- Equilateral triangle
- Isosceles triangle
- Obtuse triangle
- Right triangle

9.

Find the measure of angle x.

angle x = [Equation]

10.

Which dashed line does not create a symmetric figure when the figure is folded on the dashed line?

- f
- e
- d
- b
- c

11.

What is this?

- Parallel lines
- A line
- Perpendicular lines
- Intersecting lines that are not perpendicular

12.

What is this?

- Intersecting lines that are not perpendicular
- A line
- Perpendicular lines

- Parallel lines

13.



What kind of triangle is this?

- Equilateral triangle
- Scalene triangle
- Sharp triangle
- Flat triangle
- Isosceles triangle

14.



What kind of triangle is this?

- Isosceles triangle
- Even triangle
- Spun triangle
- Equilateral triangle
- Scalene triangle

15.



What kind of triangle is this?

- Right triangle
- Correct triangle
- Obtuse triangle
- Boomerang triangle
- Acute triangle

16.



What is this?

- Equilateral triangle
- Isosceles triangle
- Right triangle
- Acute triangle
- Obtuse triangle

17.



Find the measure of angle x.



angle w = [Equation]

18.



Find the measure of angle x.



angle w = [Equation]

19.

Which dashed line does not create a symmetric figure when the figure is folded on the dashed line?



- c
- a

- b
- d

20.

Which dashed lines create a symmetric figure when the figure is folded on the dashed line?



Check all that are true.

- d
- c
- B
- a
- e
- all of the above