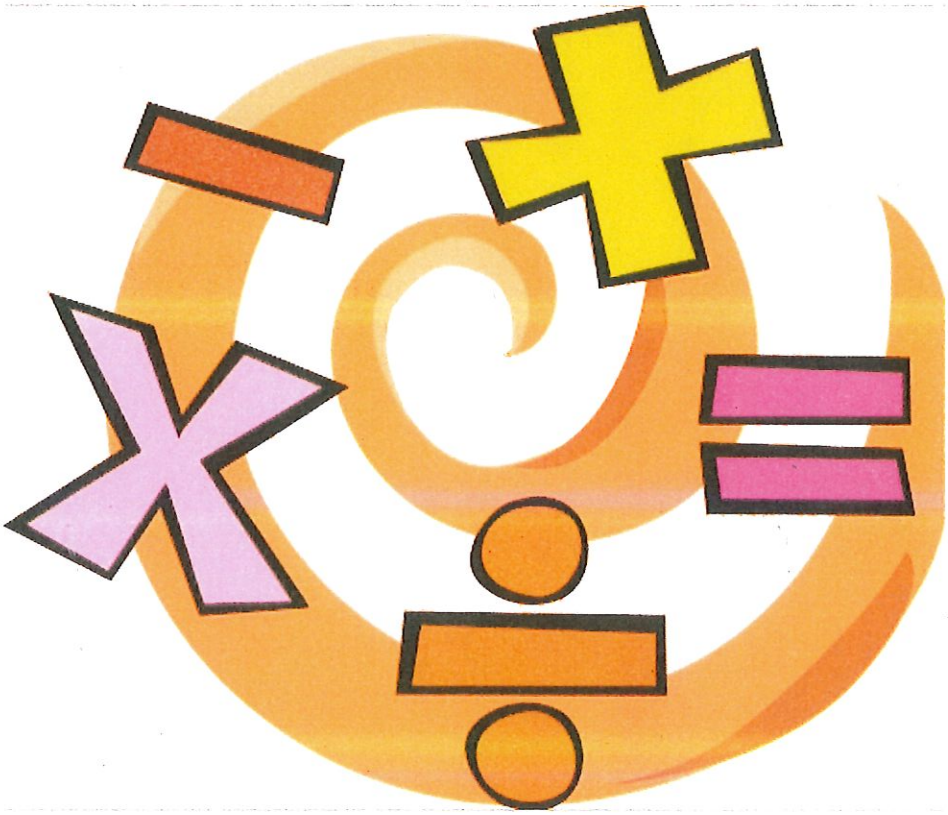
Name: _____ Date: _____

Summer Math packet for all 6th Grade students going to 7th Grade.



All work must be attached to packet in order to receive full credit. The packet will be collected and graded first thing next school year. The packet contains problems similar to those done throughout the school year. Have a great summer! - Dr. Unzueta and Mrs. Lam

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Indicate the answer choice that best completes the statement or answers the question.

Find each unit rate. Round to the nearest hundredth if necessary.

___ 1) $253 for 20 hours

A) 1 hour/$15.50 B) $12.65/hour

C) $25.30/hour D) 1 hour/$12.65

Find each unit rate. Round to the nearest tenth if necessary.

___ 2) 36 kg in 30 weeks

A) 1.2 kg/week B) 1.2 weeks/kg

C) 1.8 kg/week D) 1 week/2 kg

___ 3) 482 students to 20 teachers

A) about 29.5 students/teacher

B) 24.1 teachers/student

C) 24.1 students/teacher

D) about 1 teacher/22.3 students

___ 4) Simplify $\frac{2}{\frac{3}{4}}$.

A) $2\frac{2}{3}$ B) $2\frac{1}{3}$

C) $1\frac{1}{2}$ D) $\frac{3}{8}$

___ 5) Monique bought $3\frac{1}{2}$ pounds of hamburgers for $14. What was the cost per pound?

A) $49 B) $4.67

C) $4 D) $0.25

Determine reasonable answers.

___ 6) A survey shows that 28% of teens regularly watch television when they are doing their homework. Suppose there are 379 seventh graders who complete their homework on a particular night. What would be the number of teens that will watch television while they do their homework?

A) 200

B) 160

C) 120

D) 80

Find each number. Round to the nearest tenth if necessary.

___ 7) 60% of 89 is what number?

A) 58.2

B) 148.3

C) 35.6

D) 53.4

___ 8) What number is 260% of 28?

A) 72.8

B) 10.8

C) 728

D) 65.4

Find the total cost to the nearest cent.

___ 9) A customer's lunch costs $7.31 after tax. If the customer wants to leave a 20% tip, what will the total cost be?

A) $5.85

B) $1.46

C) $9.87

D) $8.77

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___ 10) Maria's dinner bill is $21.89 after tax. If she wants to leave a 15% tip, what will the total cost of the dinner be?

A) $24.22
B) $3.28
C) $18.61
D) $25.17

Write an integer for each situation.

___ 11) a deposit of $245

A) –245
B) 2450
C) 245
D) 24.50

___ 12) Write an integer for the following situation.

Reduce by 20 inches

A) $\frac{1}{20}$
B) –20
C) 20
D) $-\frac{1}{20}$

Add.

___ 13) –27 + (–21)

A) –58
B) –48
C) –6
D) –38

___ 14) –9 + 24

A) 25
B) –33
C) 15
D) –15

___ 15) 27 + (–9)

A) –18
B) 36
C) 18
D) 28

Evaluate each expression if $x = 7$, $y = -6$, and $z = 3$.

___ 16) $x + y + z + 4$

A) –8
B) 8
C) 20
D) 2

Evaluate each expression if $f = -6$, $g = 9$, and $h = 5$.

___ 17) $-1 - f - g$

A) 4
B) –4
C) –16
D) 14

Subtract.

___ 18) –4 – 10

A) 14
B) 6
C) –14
D) –6

Multiply.

___ 19) 3(9)

A) 27
B) –27
C) 18
D) 12

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Evaluate each expression if $r = 8$, $s = 1$, and $t = -7$.

___ 20) $-2r^2$

A) 112
B) –128
C) –32
D) –2

Divide.

___ 21) $\frac{-72}{-6}$

A) 12
B) 11
C) –78
D) –12

___ 22) $\frac{-24}{6}$

A) 4
B) –4
C) –5
D) –18

Evaluate each expression if $x = 4$, $y = 8$, and $z = -2$.

___ 23) $\frac{6y}{x}$

A) 12
B) –12
C) 13
D) –15

Write each fraction or mixed number as a decimal. Use bar notation if the decimal is a repeating decimal.

___ 24) $4\frac{1}{3}$

A) 0.06
B) $0.\overline{230769}$
C) $4.\overline{3}$
D) 4.5

___ 25) $5\frac{1}{2}$

A) 2.2
B) $5.\overline{18}$
C) 5.75
D) 5.5

___ 26) Write $\frac{1}{3}$ as a decimal. Use bar notation if the decimal is a repeating decimal.

A) 0.333
B) 1.333
C) $0.\overline{3}$
D) 0.33

Write each decimal as a fraction in simplest form.

___ 27) 0.45

A) $\frac{9}{20}$
B) $\frac{9}{200}$
C) $\frac{20}{9}$
D) $\frac{9}{2}$

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Replace each ◯ with <, >, or = to make a true sentence.

___ 28) $\frac{4}{10}$ ◯ $\frac{10}{14}$

A) >
B) =
C) <</variable>

Order the set of numbers from least to greatest.

___ 29) $\frac{77}{100}$, 0.84, 81%

A) 0.84, 81%, $\frac{77}{100}$
B) $\frac{77}{100}$, 81%, 0.84
C) $\frac{77}{100}$, 0.84, 81%
D) 81%, $\frac{77}{100}$, 0.84

Add or subtract. Write in simplest form.

___ 30) $\frac{4}{5}+\frac{1}{5}$

A) 1
B) $\frac{1}{2}$
C) $\frac{3}{5}$
D) $\frac{4}{25}$

___ 31) $\frac{5}{9}+(-\frac{1}{9})$

A) $-\frac{4}{9}$
B) $\frac{4}{9}$
C) $\frac{2}{3}$
D) $-\frac{2}{3}$

___ 32) $\frac{5}{8}-\frac{3}{8}$

A) $\frac{15}{64}$
B) $\frac{1}{2}$
C) $\frac{1}{4}$
D) 1

___ 33) $-\frac{2}{5}-\frac{1}{5}$

A) $\frac{1}{5}$
B) $-\frac{1}{5}$
C) $\frac{3}{5}$
D) $-\frac{3}{5}$

___ 34) $-\frac{5}{8}+\frac{4}{5}$

A) $-\frac{7}{40}$
B) $\frac{3}{20}$
C) $\frac{7}{40}$
D) $\frac{7}{8}$

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___ 35) Brittney bought a melon that weighed $11\frac{2}{3}$ ounces and a plum that weighed $5\frac{2}{7}$ ounces. How much more did the melon weigh than the plum?

A) $11\frac{2}{3}$ ounces

B) $6\frac{8}{21}$ ounces

C) $16\frac{4}{21}$ ounces

D) $16\frac{2}{5}$ ounces

___ 36) Yesterday, Raphael walked $2\frac{1}{3}$ miles from the swimming pool to the ice cream stand and $2\frac{7}{8}$ miles from the ice cream stand back home. How far did Raphael walk in all?

A) $6\frac{17}{24}$ miles

B) $2\frac{10}{17}$ miles

C) $\frac{13}{24}$ miles

D) $5\frac{5}{24}$ miles

Multiply. Write in simplest form.

___ 37) $\frac{5}{9} \times \frac{1}{2}$

A) $\frac{10}{9}$

B) 1

C) $\frac{9}{10}$

D) $\frac{5}{18}$

___ 38) $-\frac{1}{5}(-\frac{2}{5})$

A) $\frac{4}{15}$

B) 2

C) $\frac{1}{2}$

D) $\frac{2}{25}$

___ 39) $5\frac{3}{7} \times 5\frac{1}{2}$

A) $\frac{7}{209}$

B) $\frac{76}{77}$

C) $29\frac{6}{7}$

D) $1\frac{1}{76}$

Divide. Write in simplest form.

___ 40) $\frac{7}{13} \div \frac{7}{17}$

A) $\frac{210}{221}$

B) $1\frac{4}{13}$

C) $\frac{13}{17}$

D) $\frac{49}{221}$

___ 41) $3\frac{5}{8} \div 5\frac{1}{10}$

A) $18\frac{39}{80}$

B) $1\frac{59}{145}$

C) $\frac{145}{204}$

D) $8\frac{29}{40}$

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Evaluate each expression.

___ 42) $9f + 3h$ if $f = 9$ and $h = 6$

A) 648
B) 99
C) 63
D) 504

Use one or more properties to rewrite the expression as an equivalent expression that does not use parentheses.

___ 43) $4e \cdot (2 \cdot 5e)$

A) $10e + 4$
B) $40e$
C) $40e^2$
D) $10e \cdot 4$

Simplify each expression. Justify each step.

44) $10w + 6 + 3w$

_____

_____

Indicate the answer choice that best completes the statement or answers the question.

Solve each equation. Check your solution.

___ 45) $w - 11 = 53$

A) –42
B) 64
C) 11
D) 42

___ 46) $-54 = 9x$

A) –6
B) –0.167
C) 6
D) –45

___ 47) $15 = \frac{x}{-3}$

A) 18
B) –5
C) –45
D) 12

___ 48) $-4 + s = -68$

A) –64
B) 64
C) 272
D) –72

___ 49) Solve $-3(c - 1) = 33$.

A) 10
B) –12
C) –10
D) 12

Solve each equation. Check your solution.

___ 50) $14 = \frac{3}{4}x$

A) $18\frac{2}{3}$
B) $-18\frac{2}{3}$
C) $2\frac{3}{4}$
D) $10\frac{1}{2}$