

## Spring Break Assignment (SHOW YOUR WORK)

Class \_\_\_\_\_

**Find each quotient.**

1)  $\frac{-5}{4} \div \frac{-4}{3}$

2)  $-2 \div \frac{-5}{9}$

3)  $\frac{-3}{2} \div \frac{-15}{8}$

4)  $\frac{2}{5} \div \frac{-9}{5}$

5)  $\frac{2}{3} \div \frac{4}{5}$

**Simplify each. Write your answer as a mixed number when possible.**

6)  $\frac{72}{90}$

7)  $\frac{90}{108}$

8)  $\frac{48}{72}$

9)  $\frac{24}{48}$

10)  $\frac{72}{180}$

**Evaluate each expression.**

11)  $4\frac{3}{4} + 3\frac{1}{7}$

12)  $\frac{8}{5} + 2\frac{1}{2}$

13)  $1 - \frac{1}{2}$

14)  $\frac{2}{5} + 3\frac{1}{4}$

15)  $\frac{13}{7} + 1\frac{1}{7}$

**Write each as a decimal. Round to the hundredths place.**

16) 20%

17) 89%

18) 69%

19) 74%

20) 40%

**Evaluate each expression.**

21) 5 cubed

22) the sum of 8 and 7

23) the product of 12 and 11

24) half of 16

25) twice 12

26)  $2 \times 6 \times 3$

27)  $12 \div 2 - 5$

28)  $2 + 4 + 4$

29)  $5 + 5 - 2$

30)  $(5 + 3) \times 2$

**Simplify each expression.**

31)  $-4x - 2x$

32)  $4a + 6 + 3a$

33)  $-4x + 10x$

34)  $5r - 4r$

35)  $10 - 2n + 7$

**Solve each equation.**

36)  $n - 14 = -18$

37)  $-8 = x + 11$

38)  $m + 17 = 8$

39)  $-7x = 63$

40)  $13 = n + 9$

41)  $-\frac{9}{2} = \frac{p}{2}$

42)  $v - 8 = -8$

43)  $18 = n + 8$

44)  $11 = n - 9$

45)  $-1 = a - 9$

46) A hungry elf ate 12 of your muffins. That was  $\frac{3}{5}$  of all of them! With how many did you start?

47) A stray dog ate 9 of your muffins. That was  $\frac{3}{10}$  of all of them! With how many did you start?

48) Five workers are hired to seed a field by hand. Each is given a plot which is  $7 \times 9$  feet in size. What is the total area of the field?

**Solve each equation.**

$$49) 2 + \frac{n}{4} = 4$$

$$50) \frac{p}{3} + 5 = 8$$

$$51) \frac{v}{3} - 2 = 0$$

$$52) 3 + \frac{n}{6} = 2$$

$$53) 5n - 3 = -13$$

**State if each pair of ratios forms a proportion.**

$$54) \frac{4}{3} \text{ and } \frac{24}{12}$$

$$55) \frac{2}{3} \text{ and } \frac{8}{12}$$

$$56) \frac{16}{12} \text{ and } \frac{4}{2}$$

$$57) \frac{6}{16} \text{ and } \frac{2}{4}$$

$$58) \frac{10}{16} \text{ and } \frac{2}{4}$$

**Solve each proportion.**

$$59) \frac{p}{7} = \frac{5}{3}$$

$$60) \frac{8}{5} = \frac{4}{k}$$

$$61) \frac{8}{5} = \frac{6}{m}$$

$$62) \frac{4}{8} = \frac{6}{x}$$

63)  $\frac{7}{x} = \frac{6}{8}$

**Answer each question and round your answer to the nearest whole number.**

64) Kathryn reduced the size of a frame to a height of 2 in. What is the new width if it was originally 20 in wide and 10 in tall?

65) The currency in China is the Yuan. The exchange rate is approximately \$1 = 8 Yuan. At this rate, how many dollars would you get if you exchanged 24 Yuan?

66) Amanda took a trip to Saudi Arabia. Upon leaving she decided to convert all of her Riyals back into dollars. How many dollars did she receive if she exchanged 12 Riyals at a rate of 4 Riyals to \$1?

67) The currency in Tajikistan is the Somoni. The exchange rate is approximately \$1 for every 3 Somoni. At this rate, how many dollars would you get if you exchanged 18 Somoni?

68) The money used in Western Samoa is called the Tala. The exchange rate is \$1 for every 3 Tala. Find how many Tala you would receive if you exchanged \$6.

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**Find each quotient.**

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$\frac{15}{16}$

2)  $-2 \div \frac{-5}{9}$

$\frac{18}{5}$

3)  $\frac{-3}{2} \div \frac{-15}{8}$

$\frac{4}{5}$

4)  $\frac{2}{5} \div \frac{-9}{5}$

$-\frac{2}{9}$

5)  $\frac{2}{3} \div \frac{4}{5}$

$\frac{5}{6}$

**Simplify each. Write your answer as a mixed number when possible.**

6)  $\frac{72}{90}$

$\frac{4}{5}$

7)  $\frac{90}{108}$

$\frac{5}{6}$

8)  $\frac{48}{72}$

$\frac{2}{3}$

9)  $\frac{24}{48}$

$\frac{1}{2}$

10)  $\frac{72}{180}$

$\frac{2}{5}$

**Evaluate each expression.**

11)  $4\frac{3}{4} + 3\frac{1}{7}$

$7\frac{25}{28}$

12)  $\frac{8}{5} + 2\frac{1}{2}$

$4\frac{1}{10}$

13)  $1 - \frac{1}{2}$

$\frac{1}{2}$

14)  $\frac{2}{5} + 3\frac{1}{4}$

$3\frac{13}{20}$

$$15) \frac{13}{7} + 1\frac{1}{7}$$

3

**Write each as a decimal. Round to the hundredths place.**

$$16) 20\%$$

0.2

$$17) 89\%$$

0.89

$$18) 69\%$$

0.69

$$19) 74\%$$

0.74

$$20) 40\%$$

0.4

**Evaluate each expression.**

$$21) 5 \text{ cubed}$$

125

$$22) \text{ the sum of 8 and 7}$$

15

$$23) \text{ the product of 12 and 11}$$

132

$$24) \text{ half of 16}$$

8

$$25) \text{ twice 12}$$

24

$$26) 2 \times 6 \times 3$$

36

$$27) 12 \div 2 - 5$$

1

$$28) 2 + 4 + 4$$

10

$$29) 5 + 5 - 2$$

8

$$30) (5 + 3) \times 2$$

16

**Simplify each expression.**

$$31) -4x - 2x$$

$-6x$

$$32) 4a + 6 + 3a$$

$7a + 6$

$$33) -4x + 10x$$

$6x$

$$34) 5r - 4r$$

$r$

$35) 10 - 2n + 7$

$17 - 2n$

**Solve each equation.**

$36) n - 14 = -18$

$\{-4\}$

$37) -8 = x + 11$

$\{-19\}$

$38) m + 17 = 8$

$\{-9\}$

$39) -7x = 63$

$\{-9\}$

$40) 13 = n + 9$

$\{4\}$

$41) -\frac{9}{2} = \frac{p}{2}$

$\{-9\}$

$42) v - 8 = -8$

$\{0\}$

$43) 18 = n + 8$

$\{10\}$

$44) 11 = n - 9$

$\{20\}$

$45) -1 = a - 9$

$\{8\}$

46) A hungry elf ate 12 of your muffins. That was  $\frac{3}{5}$  of all of them! With how many did you start?

$20$

47) A stray dog ate 9 of your muffins. That was  $\frac{3}{10}$  of all of them! With how many did you start?

$30$

48) Five workers are hired to seed a field by hand. Each is given a plot which is  $7 \times 9$  feet in size. What is the total area of the field?

$315$



**Solve each equation.**

$$49) 2 + \frac{n}{4} = 4$$

{8}

$$50) \frac{p}{3} + 5 = 8$$

{9}

$$51) \frac{v}{3} - 2 = 0$$

{6}

$$52) 3 + \frac{n}{6} = 2$$

{-6}

$$53) 5n - 3 = -13$$

{-2}

**State if each pair of ratios forms a proportion.**

$$54) \frac{4}{3} \text{ and } \frac{24}{12}$$

No

$$55) \frac{2}{3} \text{ and } \frac{8}{12}$$

Yes

$$56) \frac{16}{12} \text{ and } \frac{4}{2}$$

No

$$57) \frac{6}{16} \text{ and } \frac{2}{4}$$

No

$$58) \frac{10}{16} \text{ and } \frac{2}{4}$$

No

**Solve each proportion.**

$$59) \frac{p}{7} = \frac{5}{3}$$

{11.66}

$$60) \frac{8}{5} = \frac{4}{k}$$

{2.5}

$$61) \frac{8}{5} = \frac{6}{m}$$

{3.75}

$$62) \frac{4}{8} = \frac{6}{x}$$

{12}

63)  $\frac{7}{x} = \frac{6}{8}$

{9.33}

**Answer each question and round your answer to the nearest whole number.**

64) Kathryn reduced the size of a frame to a height of 2 in. What is the new width if it was originally 20 in wide and 10 in tall?

4 in

65) The currency in China is the Yuan. The exchange rate is approximately \$1 = 8 Yuan. At this rate, how many dollars would you get if you exchanged 24 Yuan?

\$3

66) Amanda took a trip to Saudi Arabia. Upon leaving she decided to convert all of her Riyals back into dollars. How many dollars did she receive if she exchanged 12 Riyals at a rate of 4 Riyals to \$1?

\$3

67) The currency in Tajikistan is the Somoni. The exchange rate is approximately \$1 for every 3 Somoni. At this rate, how many dollars would you get if you exchanged 18 Somoni?

\$6

68) The money used in Western Samoa is called the Tala. The exchange rate is \$1 for every 3 Tala. Find how many Tala you would receive if you exchanged \$6.

18 Tala