

Show work and simplify if possible. Please write your answer on the line.

Compute if possible or write "undefined." Simplify as much as possible.

1) $9186 - 1716$ 1) _____

2) $4.1 - 8.2$ 2) _____

Write the improper fraction as a mixed number.

3) Write $\frac{5}{9}$ as a decimal. If necessary, use bar notation. 3) _____

Compute if possible or write "undefined." Simplify as much as possible.

4) $-\frac{7}{8} \div \left(-\frac{8}{7}\right)$ 4) _____

5) $\frac{49}{7}$ 5) _____

Compute if possible or write "undefined." Simplify as much as possible.

6) $\left(\frac{3}{5}\right)^2 \times \frac{1}{2}$

6) _____

7) $\frac{8}{0}$

7) _____

8) $15 - 14$

8) _____

9) $\frac{4}{3} \div \left(1 + \frac{1}{4}\right)$

9) _____

10) $31,121 + 24,351$

10) _____

Compute if possible or write "undefined." Simplify as much as possible.

11) $3.236 - 1.615$

11) _____

12) $2.853 - (-0.79)$

12) _____

13) $\left(\frac{3}{7}\right)^3$

13) _____

Write in exponential notation.

14) $8 \cdot 8 \cdot 8 \cdot 8$

14) _____

Compute if possible or write "undefined." Simplify as much as possible.

15) $-9 - 4^2 - (-5)$

15) _____

Compute if possible or write "undefined." Simplify as much as possible.

16) $16.1 \div 0.4(0.3) + (1.2)^2$ 16) _____

17) $\frac{-32}{2 + 6}$ 17) _____

18) $5 \cdot (5 + 3)^2 - 4 \cdot (5 - 3)^2$ 18) _____

19) $(-8)^2$ 19) _____

20) $17 - (-9)^2$ 20) _____

Compute if possible or write "undefined." Simplify as much as possible.

21) $-10 + 6 - 1 - (-7)$

21) _____

22) $\left(\frac{1}{2} + \frac{1}{3}\right) \cdot \frac{4}{12}$

22) _____

23) -9^2

23) _____

24) $-10 \cdot (-11)$

24) _____

25) $\left(-\frac{1}{2}\right) \cdot \left(-\frac{1}{3}\right)$

25) _____

Compute if possible or write "undefined." Simplify as much as possible.

26) $-0.8 \cdot 3.12$

26) _____

27) $-6 \cdot 17$

27) _____

28) $(67)(903)$

28) _____

29) $9 \overline{)486}$

29) _____

30) $-1.3 + 6.1$

30) _____

Compute if possible or write "undefined." Simplify as much as possible.

31) $-13 - (-20)$

31) _____

Find the unknown.

32) What is 35% of 500?

32) _____

Compute if possible or write "undefined." Simplify as much as possible.

33) $\frac{1}{9} - \left(-\frac{1}{3}\right)$

33) _____

34) $\frac{6}{7} \div \left(-\frac{8}{5}\right)$

34) _____

35) $\frac{\frac{8}{3}}{-\frac{1}{3}}$

35) _____

Compute if possible or write "undefined." Simplify as much as possible.

36) $20 \div \frac{5}{2}$

36) _____

Compute if possible or write "undefined." Simplify as much as possible. If solvable, answer should be in the form of a mixed numeral.

37) $5\frac{1}{8} \div 3\frac{3}{4}$

37) _____

Compute if possible or write "undefined." Simplify as much as possible.

38) $\frac{2}{3} - \frac{7}{9}$

38) _____

39) $(5.6)^2$

39) _____

40) $\frac{2.4}{0.03}$

40) _____

Compute if possible or write "undefined." Simplify as much as possible.

41) $18 \cdot \frac{5}{6}$

41) _____

Compute if possible or write "undefined." Simplify as much as possible. If solvable, answer should be in the form of a mixed numeral.

42) $5\frac{1}{7} + 1\frac{4}{5}$

42) _____

Compute if possible or write "undefined." Simplify as much as possible.

43) $\frac{-189}{9}$

43) _____

44) $-9 - 15$

44) _____

45) $\frac{6}{26} + \frac{3}{26}$

45) _____

Compute if possible or write "undefined." Simplify as much as possible.

$$46) \frac{3}{4} + \frac{1}{8}$$

46) _____

Compute if possible or write "undefined." Simplify as much as possible. If solvable, answer should be in the form of a mixed numeral.

$$47) 15\frac{2}{9} - 6\frac{1}{3}$$

47) _____

Compute if possible or write "undefined." Simplify as much as possible.

$$48) \frac{-1}{5} + \frac{1}{15}$$

48) _____

$$49) \frac{0}{13}$$

49) _____

$$50) -1 + 8$$

50) _____

Answer Key

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- 1) 7470
- 2) -4.1
- 3) $2\frac{3}{5}$
- 4) $\frac{49}{64}$
- 5) 7
- 6) $\frac{9}{50}$
- 7) Not defined
- 8) 1
- 9) $\frac{16}{15}$
- 10) 55,472
- 11) 1.621
- 12) 3.643
- 13) $\frac{27}{343}$
- 14) 84
- 15) -20
- 16) 13.515
- 17) -4
- 18) 304
- 19) 64
- 20) -64
- 21) 2
- 22) $\frac{5}{18}$
- 23) -81
- 24) 110
- 25) $\frac{1}{6}$
- 26) -2.496
- 27) -102

Answer Key

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28) 60,501

29) 54

30) 4.8

31) 7

32) 175

33) $\frac{4}{9}$

34) $-\frac{15}{28}$

35) -8

36) 8

37) $1\frac{11}{30}$

38) $-\frac{1}{9}$

39) 31.36

40) 80

41) 15

42) $6\frac{33}{35}$

43) -21

44) -24

45) $\frac{9}{26}$

46) $\frac{7}{8}$

47) $8\frac{15}{16}$

48) $-\frac{2}{15}$

49) 0

50) 7