

Name: \_\_\_\_\_

Advanced Percentage: 10 [ A ]



% Intro Common to %	10%+dis 50%+dis	25%+dis 100+%	10% 50% inc 100+% inc	1% 0.5% Revision Adv percent
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**Expressing one quantity as a percentage of another.**

\_\_\_\_\_ % of 60 = 30

Compare 60 and 30. 30 is half of 60 so 30 is 50% of 60.

50% of 60 = 30

**Find the percent:**

1) \_\_\_\_\_ of 4 = 2

6) \_\_\_\_\_ of 300 = 3

2) \_\_\_\_\_ of 400 = 400

7) \_\_\_\_\_ of 855 = 85.5

3) \_\_\_\_\_ of 100 = 25

8) \_\_\_\_\_ of 80 = 20

4) \_\_\_\_\_ of 100 = 75

9) \_\_\_\_\_ of 50 = 5

5) \_\_\_\_\_ of 500 = 50

10) \_\_\_\_\_ of 380 = 380

**Find 1%, 10%**

11) 10% of \_\_\_\_\_

12) 1% of \_\_\_\_\_

13) 100% of \_\_\_\_\_

14) 100% of \_\_\_\_\_

15) 10% of \_\_\_\_\_

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**Simplify these**

21)  $\frac{6}{12} =$  \_\_\_\_\_

22)  $\frac{20}{50} =$  \_\_\_\_\_

36

15

20

**Convert these common fractions to percents**

29)  $\frac{35}{100} =$  \_\_\_\_\_

34)  $\frac{1}{100} =$  \_\_\_\_\_

30)  $\frac{91}{100} =$  \_\_\_\_\_

35)  $\frac{56}{100} =$  \_\_\_\_\_

31)  $\frac{7}{100} =$  \_\_\_\_\_

36)  $\frac{50}{100} =$  \_\_\_\_\_

32)  $\frac{45}{100} =$  \_\_\_\_\_

37)  $\frac{0}{100} =$  \_\_\_\_\_

33)  $\frac{10}{100} =$  \_\_\_\_\_

38)  $\frac{4}{100} =$  \_\_\_\_\_

**Convert these decimals to percents**

39) 0.25 = \_\_\_\_\_ 44) 0.39 = \_\_\_\_\_

40) 0.48 = \_\_\_\_\_ 45) 0.81 = \_\_\_\_\_

41) 0.01 = \_\_\_\_\_ 46) 0.72 = \_\_\_\_\_

42) 0.08 = \_\_\_\_\_ 47) 0.11 = \_\_\_\_\_

43) 0.30 = \_\_\_\_\_ 48) 0.48 = \_\_\_\_\_

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Name: \_\_\_\_\_

Advanced Percentage: 10 [ B ]



% Intro Common to %	10%+dis 50%+dis	25%+dis 100+%	10% 50% inc 100+% inc	1% 0.5% Revision Adv percent
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**Find the percent:**

- |                       |                        |
|-----------------------|------------------------|
| 1) _____ of 60 = 30   | 6) _____ of 100 = 10   |
| 2) _____ of 500 = 50  | 7) _____ of 5 = 0.5    |
| 3) _____ of 30 = 3    | 8) _____ of 8 = 0.08   |
| 4) _____ of 400 = 200 | 9) _____ of 20 = 1     |
| 5) _____ of 400 = 4   | 10) _____ of 400 = 100 |

**Find 1%, 10% or 100% of each of these numbers:**

- |                          |                        |
|--------------------------|------------------------|
| 11) 100% of 857 = _____  | 16) 1% of 5001 = _____ |
| 12) 10% of 79387 = _____ | 17) 1% of 7 = _____    |
| 13) 1% of _____          |                        |
| 14) 1% of _____          |                        |
| 15) 10% of _____         |                        |

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**Find the new amount:**

- |                                    |                                      |
|------------------------------------|--------------------------------------|
| 21) 100% increase on \$100 = _____ | 26) 100% increase on \$0,000 = _____ |
| 22) 100% increase on \$100 = _____ |                                      |
| 23) 100% increase on \$100 = _____ |                                      |
| 24) 100% increase on \$100 = _____ |                                      |
| 25) 100% increase on \$100 = _____ |                                      |

**Convert these percents to common fractions**

- |                  |                   |
|------------------|-------------------|
| 41) 82 % = _____ | 46) 4 % = _____   |
| 42) 69 % = _____ | 47) 8 % = _____   |
| 43) 55 % = _____ | 48) 12 % = _____  |
| 44) 23 % = _____ | 49) 2 % = _____   |
| 45) 20 % = _____ | 50) 100 % = _____ |

**Convert these percents to decimals**

- |                  |                  |
|------------------|------------------|
| 51) 31 % = _____ | 56) 87 % = _____ |
| 52) 8 % = _____  | 57) 44 % = _____ |
| 53) 67 % = _____ | 58) 60 % = _____ |
| 54) 26 % = _____ | 59) 2 % = _____  |
| 55) 99 % = _____ | 60) 76 % = _____ |

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Name: \_\_\_\_\_

Advanced Percentage: 10 [ C ]



% Intro Common to %	10%+dis 50%+dis	25%+dis 100%+	10% 50% inc 100%+ inc	1% 0.5% Revision Adv percent
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**Expressing one quantity as a percentage of another.**

\_\_\_ % of 20 = 15 Compare 15 and 20. 15 is three quarters of 20 so 15 is 75% of 20.

75% of 20 = 15 Remember:  $1/4 = 25%$ ;  $3/4 = 75%$ ;  $1/5 = 20%$ ;  $1/2 = 50%$ ;  $1/10 = 10%$ ,  $1/100 = 1%$

**Find the percent:**

1) \_\_\_\_\_ of 100 = 75

6) \_\_\_\_\_ of 200 = 150

2) \_\_\_\_\_ of 200 = 50

7) \_\_\_\_\_ of 400 = 300

3) \_\_\_\_\_ of 10 = 2

8) \_\_\_\_\_ of 100 = 20

4) \_\_\_\_\_ of 10 = 1

9) \_\_\_\_\_ of 400 = 80

5) \_\_\_\_\_ of 5 = 0.5

10) \_\_\_\_\_ of 200 = 50

**Find 1%, 10%**

11) 1% of \_\_\_\_\_ = \_\_\_\_\_

12) 10% of \_\_\_\_\_ = \_\_\_\_\_

13) 10% of \_\_\_\_\_ = \_\_\_\_\_

14) 100% of \_\_\_\_\_ = \_\_\_\_\_

15) 10% of \_\_\_\_\_ = \_\_\_\_\_



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**Simplify these**

21)  $\frac{6}{24} =$  \_\_\_\_\_

22)  $\frac{24}{30} =$  \_\_\_\_\_

**Find the missing number:**

29) 1% of \_\_\_\_\_ = 0.04

30) 10% of \_\_\_\_\_ = 0.6

31) 100% of \_\_\_\_\_ = 9

32) 50% of \_\_\_\_\_ = 250

33) 50% of \_\_\_\_\_ = 10

34) 10% of \_\_\_\_\_ = 40

35) 1% of \_\_\_\_\_ = 0.02

**Multiply whole numbers by fractions**

36)  $24 \times \frac{2}{8} =$  \_\_\_\_\_

41)  $18 \times \frac{4}{9} =$  \_\_\_\_\_

37)  $48 \times \frac{2}{8} =$  \_\_\_\_\_

42)  $15 \times \frac{1}{3} =$  \_\_\_\_\_

38)  $30 \times \frac{3}{5} =$  \_\_\_\_\_

43)  $8 \times \frac{5}{8} =$  \_\_\_\_\_

39)  $40 \times \frac{1}{8} =$  \_\_\_\_\_

44)  $40 \times \frac{1}{5} =$  \_\_\_\_\_

40)  $48 \times \frac{6}{8} =$  \_\_\_\_\_

45)  $12 \times \frac{3}{6} =$  \_\_\_\_\_

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