

EXERCISES ON PERCENTS

Multiple-Choice Questions

- Charlie bought a \$60 radio on sale at 5% off. How much did he pay, including 5% sales tax?
(A) \$57.00
(B) \$57.75
(C) \$59.85
(D) \$60.00
- If a is a positive number, 400% of a is what percent of $400a$?
(A) 0.1
(B) 1
(C) 10
(D) 100
- What percent of 50 is b ?
(A) $\frac{b}{2}$
(B) $\frac{50}{b}$
(C) $\frac{2}{b}$
(D) $2b$
- At Harry's Discount Hardware everything is sold for 20% less than the price marked. If Harry buys tool kits for \$80, what price should he mark them if he wants to make a 20% profit on his cost?
(A) \$96
(B) \$100
(C) \$120
(D) \$125
- 9 is $\frac{1}{3}\%$ of what number?
(A) .27
(B) 3
(C) 300
(D) 2,700
- Mr. Howard was planning on depositing a certain amount of money each month into a college fund for his children. He then decided not to make any contributions during June and July. To make the same annual contribution that he had originally planned, by what percent should he increase his monthly deposits?
(A) $16\frac{2}{3}\%$
(B) 20%
(C) 25%
(D) $33\frac{1}{3}\%$
- During his second week on the job, Jason earned \$110. This represented a 25% increase over his earnings of the previous week. How much did he earn during his first week of work?
(A) \$82.50
(B) \$85.00
(C) \$88.00
(D) \$137.50
- What is 10% of 20% of 30%?
(A) 0.006%
(B) 0.6%
(C) 6%
(D) 60%
- If 1 micron = 10,000 angstroms, then 100 angstroms is what percent of 10 microns?
(A) 0.001%
(B) 0.01%
(C) 0.1%
(D) 1%

10. On a test consisting of 80 questions, Marie answered 75% of the first 60 questions correctly. What percent of the other 20 questions did she need to answer correctly for her grade on the entire exam to be 80%?

(A) 87.5%
(B) 90%
(C) 95%
(D) 100%

13. There are twice as many girls as boys in an English class. If 30% of the girls and 45% of the boys have already handed in their book reports, what percent of the students have not yet handed in their reports?

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

Grid-in Questions

11. A jar contains 2000 marbles. If 61.5% of them are red, 27.2% of them are white, and 10% of them are blue, how many are neither red, white, nor blue?

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

14. During a sale a clerk was putting a new price tag on each item. On one radio, he accidentally raised the price by 15% instead of lowering the price by 15%. As a result the price on the tag was \$45 too high. What was the original price, in dollars, of the radio?

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

12. If 25 students took an exam and 4 of them failed, what percent of them passed?

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

15. If a person has an income of \$100,000, what percent of his income does he pay in federal income tax if the tax rate is as given below?
- 15% of the first \$30,000 of income,
28% of the next \$30,000 of income, and
31% of all income in excess of \$60,000.

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

16. The price of a can of soup was increased by 20%. How many cans can be purchased for the amount of money that used to buy 300 cans?

•	•	•	•
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

19. Wendy drew a square. She then erased it and drew a second square whose sides were 3 times the sides of the first square. The area of the second square is $k\%$ greater than the area of the first square. What is k ?

•	•	•	•
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

17. An art dealer bought a painting for \$1000 and later sold it for \$10,000. By what percent did the value of the painting increase?

•	•	•	•
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

20. In a large jar full of jelly beans, 30% of them are red, and 40% of the red jelly beans are cherry. If 25% of the non-cherry-flavored red jelly beans are raspberry, what percent of all the jelly beans are either cherry or raspberry?

•	•	•	•
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

18. Jar B has 20% more marbles than jar A. What percent of the marbles in jar B have to be moved to jar A in order that the number of marbles in each jar will be the same?

•	•	•	•
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9