- 1. Jane can make 16 parts in 2 hours. Which expression below represents the number of hours Jane needs to make 100 parts?
 - ① ② ③ ④ ⑤
 - (1) $(2 \times 100) \div 16$
 - (2) $(16 \times 100) \div 2$
 - (3) $(16 \times 2) \div 100$
 - (4) $(16 + 2) \div 100$
 - (5) 2 x 100 x 16
- Peaches cost 90 cents a dozen. Which expression represents the cost of 8 peaches?
 - ① ② ③ ④ ⑤
 - (1) (12 x 8) x .90
 - $(2) (.90 \times 8) \div 12$
 - (3) $.90 \div (12 \times 8)$
 - (4) $(.90 \times 12) \div 8$
 - (5) $(90 \times 8) \div 12$
- 3. A dvd player listed for \$350 is on sale for \$280. The sales tax is 6%. What is the **total** price of the dvd on sale?
 - ① ② ③ ④ ⑤
 - (1) \$259.00
 - (2) \$262.20
 - (3) \$296.80
 - (4) \$301.00
 - (5) \$324.00
- 4. Find the interest on a used car priced at \$3,000 at 15% for one year.
 - ① ② ③ ④ ⑤
 - (1) \$5
 - (2) \$15
 - (3) \$150
 - (4) \$450
 - (5) \$1500
- 5. Find the interest on \$3,000 at 15% for <u>6 months</u> (6 months is <u>PART</u> of a year).
 - ① ② ③ ④ ⑤
 - (1) \$200
 - (2) \$225
 - (3) \$350
 - (4) \$400
 - (5) \$900
- 6. Van Hook Nursery sold 50 Periwinkle plants. Of these 20% were white. How many plants were **white**?
 - 0 2 3 4 5
 - (1) 10
 - (2) 12
 - (3) 13
 - (4) 15
 - (5) 40

7. The ratio of rainy days to sunny days in August was 3:2. If it rained 18 days of the month, how many days were **sunny**?

	0	0	0	
0	0	0	0	0
0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
(5)	(5)	(5)	(5)	(5)
6	6	6	6	6
Ø	Ø	Ø	Ø	Ø
8	8	8	8	8
9	9	9	9	9

- 8. Ed was doing knee bends. If he does 11 knee bends in 15 seconds, how many **knee bends** can he perform in one minute?
 - 0 2 3 4 5
 - (1) 11
 - (2) 22
 - (3) 32
 - (4) 44
 - (5) 55
- 9. If 150 gallons of gas were pumped in one hour, how many <u>hours</u> would it take to pump 1,500 gallons?
 - 0 3 4 5
 - (1) 6
 - (2) 8
 - (3) 10
 - (4) 11
 - (5) 12
- 10. Don's bill at a restaurant was \$19. He plans to leave a 15% tip. For what <u>total</u> amount should he write the check?
 - 0 2 3 4 5
 - (1) \$2.85
 - (2) \$16.15
 - (3) \$21.85
 - (4) \$28.50
 - (5) not enough information given

11. Emily is buying four items priced at \$4.39, \$2, \$.61 and \$6. The sales tax is 4%. She pays with a \$20 bill. **How much change** should she receive?

	0	0	0	
0	0	0	0	0
0	0	0	0	0
1	1	1	1	1
2	2	@	@	@
3	3	3	3	3
4	4	4	4	4
(5)	(5)	(5)	(5)	(5)
6	6	6	6	6
Ø	Ø	9	7	Ø
8	8	8	8	8
9	9	9	9	9

- 12. A pair of levis costs \$39.50. Sales tax is 4%. Find the **total** cost of the levis, including the sales tax?
 - ① ② ③ ④ ⑤
 - (1) \$1.58
 - (2) \$15.80
 - (3) \$40.08
 - (4) \$41.08
 - (5) not enough information given
- 13. There are 20 people in math class. <u>25% were absent</u>. How many were <u>in class</u>?
 - ① ② ③ ④ ⑤
 - (1) 2
 - (2) 5
 - (3) 14
 - (4) 15
 - (5) not enough information given
- 14. If 10% of 1,000 people voted, how many people voted?
 - 1 2 3 4 5
 - (1) 1
 - (2) 10
 - (3) 100
 - (4) 900
 - (5) 1000

- 15. If 10% of 1,000 people voted, how many people did **not vote**?
 - ① ② ③ ④ ⑤
 - (1) 1
 - (2) 10
 - (3) 100
 - (4) 900
 - (5) 1000
- 16. Find the interest on a loan with a principal of \$800 for 1 year with a rate of 9%.

	0	0	0	
0	0	0	0	0
0	0	0	0	0
1	①	①	①	①
2	@	@	@	@
3	3	3	3	3
4	4	4	4	4
(5)	(5)	(5)	(5)	(5)
6	6	6	6	6
Ø	Ø	Ø	Ø	Ø
8	8	8	8	8
9	9	9	9	9

- 17. The ratio of girls to boys at the Villa Elementary School is 5:4. There are 120 girls in the school. How many **boys** are there?
 - 1 2 3 4 5
 - (1) 60
 - (2) 96
 - (3) 120
 - (4) 150
 - (5) 600

18. The ratio of width to the length of a picture is 3:5. If the picture is enlarged to be 15 inches wide, how **long** will it be?

	0	0	0	
0	0	0	0	0
0	0	0	0	0
①	1	1	1	1
2	2	2	2	@
3	3	3	3	3
4	4	4	4	4
(5)	(5)	(5)	(5)	(5)
6	6	6	6	6
Ø	Ø	(7)	6	(7)
8	8	8	8	8
9	9	9	9	9

- 19. The ratio of blue to red paint in a certain mixture is 3:2. If Bella uses 6 gallons of blue paint for the mixture, how many gallons of <u>red</u> paint should she use?
 - ① ② ③ ④ ⑤
 - (1) 4
 - (2) 6
 - (3) 15
 - (4) 18
 - (5) 36
- 20. The ratio of wins to losses for the West Coyotes baseball team was 3:5. The team lost 25 games. How many games did they win?
 - 0 2 3 4 5
 - (1) 9
 - (2) 15
 - (3) 25(4) 45
 - (5) 75
- 21. If Arthur can paint a wall in 40 minutes, what part of the wall can he paint in ½ hour?
 - ① ② ③ ④ ⑤
 - (1) 1/4
 - (2) $\frac{1}{2}$
 - (3) $^{2}/_{3}$
 - (4) 3/4
 - (5) $\frac{4}{5}$

- 22. Susie drove 72 miles in 1½ hours. If she drives the same average speed, how many miles can she go in 4 hours?
 - ① ② ③ ④ ⑤
 - (1) 19
 - (2) 72
 - (3) 192
 - (4) 270
 - (5) 288
- 23. The scale on a map is ½ inch = 15 miles. How far apart are two towns which are 2 inches apart on the map?
 - ① ② ③ ④ ⑤
 - (1) 6
 - (2) 25
 - (3) 30
 - (4) 60
 - (5) 600
- 24. Debbie works 3 days a week and makes \$255. Which expression shows what Debbie would earn if she worked 5 days per week?
 - ① ② ③ ④ ⑤
 - (1) ³/₅ (255)
 - (2) $\frac{5}{3}$ (255)
 - (3) 3(255)
 - (4) 5(255)
 - (5) <u>5</u> 255
- 25. The ratio of empty seats to the total number of seats in a theater is 1:4. If there are a total of 140 seats, how many seats were **empty**?

	0	0	0	
0	0	0	0	0
0	0	0	0	0
①	(1)	(1)	(1)	Θ
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
(5)	(5)	(5)	(5)	⑤
6	6	6	6	6
Ø	Ø	Ø	Ø	Ø
8	8	8	8	8
9	9	9	9	9

26. At Denver International Airport, the ratio of delayed flights to on schedule flights is 2:7. During a normal week there are 108 total flights leaving Denver International Airport. How many of these flights are likely to be delayed?

	0	0	0	
0	0	0	0	0
0	0	0	0	0
0	1	①	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
(5)	(5)	(5)	(5)	(5)
6	6	6	6	6
Ø	Ø	Ø	Ø	Ø
8	8	8	8	8
9	9	9	9	9

- 27. Which of the following ratios is **NOT** equal to the ratio 12:36?
 - ① ② ③ ④ ⑤
 - (1) 3:9
 - (2) 5:15
 - (3) 9:36
 - (4) 10:30
 - (5) 16:48
- 28. One gallon of water weighs approximately 8 ¹/₃ pounds. If one cubic foot of water holds about 7 ½ gallons, what is the <u>approximate</u> weight in pounds of one cubic foot of water?
 - 1 2 3 4 5
 - (1) 56 $^{1}/_{6}$
 - (2) 62 ½
 - (3) $64^{1}/_{6}$
 - (4) 68 ½
 - (5) $72^{2}/_{3}$

- 29. If Clyde can lose weight at the rate of 1 ¼ pounds per week, how many weeks will it take to lose 17 ½ pounds?
 - ① ② ③ ④ ⑤
 - (1) 10
 - (2) 11
 - (3) 12
 - (4) 13
 - (5) 14
- 30. If there are about 1 $^2/_5$ kilometers in 1 mile, about how many kilometers are there in 4 miles?
 - ① ② ③ ④ ⑤
 - (1) 5 $^{3}/_{5}$
 - (2) 5 $^{7}/_{8}$
 - (3) $6^{1}/_{5}$
 - (4) 6 ½
 - (5) $7^{1}/_{5}$