California High School Exit Examination

1. The radius of the earth's orbit is $150,000,000,000$ meters. What is thi number in scientific notation?

A $1.5 \times 10^{-11}$
B $1.5 \times 10^{11}$
C $15 \times 10^{10}$
D $150 \times 10^{9}$
2. $3.6 \times 10^{2}=$

A $\quad 3.600$
B 36
C 360
D 3,600
3. Which expression represents $\mathbf{0 . 0 0 0 0 0 0 7}$ in scientific notation?

A $7 \times 10^{-9}$
B $7 \times 10^{-7}$
C $7 \times 10^{7}$
D $7 \times 10^{9}$
4. The five members of a band are getting new outfits. Shirts cost \$12 each, pants cost \$29 each, and boots cost $\$ 49$ a pair. What is the total cost of the new outfits for all of the members?
A $\quad \$ 90$
B $\quad \$ 95$
C $\$ 450$
D $\$ 500$
5. $\frac{11}{12}-\left(\frac{1}{3}+\frac{1}{4}\right)=$

A $\frac{1}{3}$
B $\frac{3}{4}$
C $\frac{5}{6}$
D $\frac{9}{5}$
6. Which of the following numerical expressions results in a negative number.
A $(-7)+(-3)$
B $(-3)+(7)$
C $(3)+(7)$
D $(3)+(-7)+(11)$
7. One hundred is multiplied by a number between 0 and 1 . The answer has to be-

A less than 0 .
B between 0 and 50 but not 25 .
C between 0 and 100 but not 50
D between 0 and 100 .
8. John uses $\frac{\mathbf{2}}{\mathbf{3}}$ of a cup of oats per serving to make oatmeal. How many cups of oats does
he need to make 6 servings?
A $2 \frac{2}{3}$
B 4
C $5 \frac{1}{3}$
D 9
11. What number equals $\frac{3}{8}$ ?

A 0.267
B 0.375
C 2.67
D 3.75
12. The cost of an afternoon movie ticket last year was $\$ 4.00$. This year an afternoon movie ticket costs $\$ 5.00$. What is the percent increase of the ticket from last year to this year?
A $10 \%$
B $20 \%$
C $25 \%$
D $40 \%$
If Freya makes $\mathbf{4}$ of her 5 free throws in a basketball game, what is her free throw shooting percentage?
A $20 \%$
B $40 \%$
C $80 \%$
D $90 \%$
10. Some students attend school 180 of the 365 days in a year. About what part of the year do they attend school?
A $18 \%$
B $50 \%$
C $75 \%$
D $180 \%$
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13. The weekly sales of a magazine increased from 500,000 to $\mathbf{6 0 0}, \mathbf{0 0 0}$. By what percentage did the magazine sales increase?

A $17 \%$
B $20 \%$
C $83 \%$
D $120 \%$
14. Traditions Clothing Store is having a sale. Shirts that were regularly priced at \$20 are on sale for $\$ 17$. What is the percentage of decrease in the price of the shirts?
A $3 \%$
B $15 \%$
C $18 \%$
D $85 \%$

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15. Sally puts $\$ 200.00$ in a bank account. Each year the account earns $8 \%$ simple interest. How much interest will be earned in three years?
A $\quad \$ 16.00$
B $\$ 24.00$
C $\$ 48.00$
D $\$ 160.00$
16. A pair of jeans regularly sells for $\$ 24.00$. They are on sale for $\mathbf{2 5 \%}$ off. What is the sale price of the jeans?
A $\$ 6.00$
B $\$ 18.00$
C $\$ 20.00$
D $\$ 30.00$
17. A CD player regularly sells for $\$ 80$. It is on sale for $20 \%$ off. What is the sale price of the
CD player?
A salesperson at a clothing store earns a $2 \%$ commission on all sales. How much commission does the salesperson earn on a \$300 sale?

A $\$ 6$
B $\$ 15$
C $\$ 60$
D $\$ 150$
20. Which number equals $(2)^{-4}$ ?

A $\quad-8$
B $-\frac{1}{16}$
C $\frac{1}{16}$
D $\frac{1}{8}$

A $\$ 16$
B $\$ 60$
C $\$ 64$
D $\$ 96$
18. Jana bought a car for $\$ 4200$ and later sold it for a $30 \%$ profit. How much did Jana sell the car for?
A $\$ 1260$
B $\$ 2940$
C $\$ 5460$
D $\$ 7140$
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21. $\frac{10^{-2}}{10^{-4}}=$

A $10^{-6}$
B $\quad 10^{-2}$
C $10^{2}$
D $10^{8}$
22. Which of the following is equivalent to $7^{-6} \cdot 7^{4}$ ?
A $7^{-24}$
B $7^{-10}$
C $7^{-2}$
D $7^{2}$

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23. Which fraction is equivalent to $\frac{5}{6}+\frac{7}{8}$ ?

A $\frac{35}{48}$
B $\frac{6}{7}$
C $\frac{20}{21}$
D $\frac{41}{24}$
26. $\left(3^{8}\right)^{2}=$

A $3^{4}$
B $3^{6}$
C $3^{10}$
D $3^{16}$
27. $4^{3} \cdot 4^{2}=$

A $4^{5}$
B $4^{6}$
C $16^{5}$
D $16^{6}$
28. What is $\mathbf{6}^{\mathbf{2}} \cdot \mathbf{2}^{\mathbf{2}}$ ?

A 32
B 48
C 144
D 256
29. What is the value of $\frac{2^{6} \cdot 2^{4}}{2^{5}}$ ?

A 4
B 10
C 16
D 32
30. The square root of $\mathbf{1 5 0}$ is between-

A 10 and 11 .
B 11 and 12 .
C 12 and 13 .
D 13 and 14 .

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