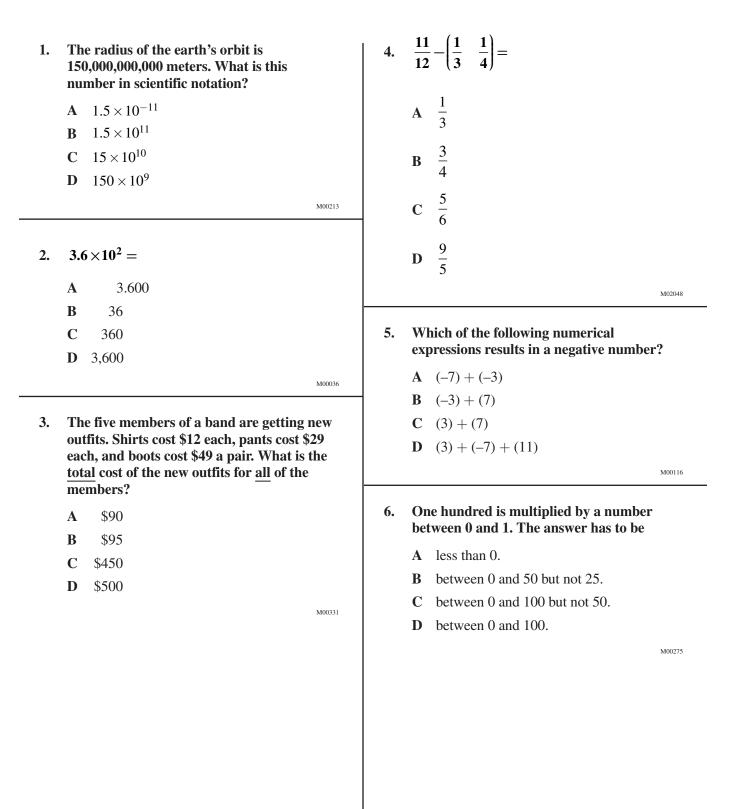
## Number Sense



- 7. John uses  $\frac{2}{3}$  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

M23015

- 8. If Freya makes 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%

M00223

- 9. 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%

M00047

M13470

- 4 -

- 10. What number equals  $\frac{3}{8}$ ?
  - A 0.267
  - **B** 0.375
  - **C** 2.67
  - **D** 3.75

- 11. 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%
- 12. The price of a calculator has decreased from \$12.00 to \$9.00. What is the percent of decrease?
  - A 3%
  - **B** 25%
  - **C** 33%
  - **D** 75%

M02868

M02158

- 13. The weekly sales of a magazine increased from 500,000 to 600,000. By what percent did the magazine sales increase?
  - **A** 17%
  - **B** 20%
  - **C** 83%
  - **D** 120%

M11242

- 14. 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** \$16.00
  - **B** \$24.00
  - **C** \$48.00
  - **D** \$160.00

M02119

15.	A pair of jeans regularly sells for \$24.00. They are on sale for 25% off. What is the sale price of the jeans?	19. Which number equals $(2)^{-4}$ ? A -8
	<b>A</b> \$6.00	$A = -\delta$
	<ul><li>B \$18.00</li><li>C \$20.00</li></ul>	. 1
		$\mathbf{B} = -\frac{1}{16}$
	<b>D</b> \$30.00	$C = \frac{1}{16}$
16.	A CD player regularly sells for \$80. It is on sale for 20% off. What is the sale price of the CD player?	D 1/8
	A \$16	10-2
	<b>B</b> \$60	20. $\frac{10^{-2}}{10^{-4}} =$
	<b>C</b> \$64	10
	<b>D</b> \$96	A $10^{-6}$
	M02425	<b>B</b> $10^{-2}$
		$C = 10^2$
17.	Jana bought a car for \$4200 and later sold it for a 30% profit. How much did Jana sell the car for?	D 10 <sup>8</sup>
	A \$1260	
	<b>B</b> \$2940	21. Which of the following is equivalent to
	<b>C</b> \$5460	$7^{-6} \bullet 7^4$ ?
	<b>D</b> \$7140	A $7^{-24}$
	м10580	<b>B</b> $7^{-10}$
		C $7^{-2}$
18.	A salesperson at a clothing store earns a	$\mathbf{D}$ 7 <sup>2</sup>
	2% commission on all sales. How much commission does the salesperson earn on a \$300 sale?	M12679
	A \$6	
	<b>B</b> \$15	
	<b>C</b> \$60	
	<b>D</b> \$150	
	M20470	

22. Which fraction is equivalent to $\frac{5}{6} + \frac{7}{8}$ ?	$  25. (3^8)^2 =$
$\mathbf{A}  \frac{35}{48}$	<b>A</b> $3^4$
	$\mathbf{B}$ $3^{6}$
$\mathbf{B} = \frac{6}{7}$	$\begin{array}{c} \mathbf{C}  3^{10} \end{array}$
	$D 3^{16}$
C $\frac{20}{21}$	M02406
21	1002400
$\mathbf{D}  \frac{41}{24}$	26. $4^3 \times 4^2 =$
24	$\mathbf{A} = 4^5$
M12713	$\mathbf{B}$ $4^{6}$
	$C 16^5$
23. Which of the following is the prime factored	$\mathbf{D}$ 16 <sup>6</sup>
form of the lowest common denominator	M02661
of $\frac{7}{10} + \frac{8}{15}$ ?	M02001
10 15	27. What is $6^2 \cdot 2^2$ ?
$\mathbf{A}  5 \times 1$	A 32
<b>B</b> $2 \times 3 \times 5$	<b>B</b> 48
$\mathbf{C}  2 \times 5 \times 3 \times 5$	<b>C</b> 144
<b>D</b> $10 \times 15$	<b>D</b> 256
M02826	M22029
3 1	
24. What is $\frac{3}{4} - \frac{1}{6}$ ?	28. The square root of 150 is between
1	<b>A</b> 10 and 11.
$A = \frac{1}{6}$	<b>B</b> 11 and 12.
1	<b>C</b> 12 and 13.
$\mathbf{B} = \frac{1}{3}$	<b>D</b> 13 and 14.
7	M02666
$C = \frac{1}{12}$	
	29. The square of a <u>whole</u> number is between
<b>D</b> $\frac{11}{12}$	1,500 and 1,600. The number must be between
1 Z M13552	
M15552	A 30 and 35.
	<b>B</b> 35 and 40.
	C 40 and 45.
	<b>D</b> 45 and 50.
	M00313

- 30. Between which two integers is the value of  $\sqrt{61}$ ?
  - **A** 6 and 7
  - **B** 7 and 8
  - **C** 8 and 9
  - **D** 9 and 10

M22059

- 31. If |x| = 3, what is the value of x?
  - A -3 or 0
  - **B** -3 or 3
  - **C** 0 or 3
  - **D** -9 or 9

M02122

M02667

- 32. What is the absolute value of -4?
  - A -4
  - **B**  $-\frac{1}{4}$
  - $C = \frac{1}{4}$
  - **D** 4

- **33.** Which number has the greatest absolute value?
  - A -17
  - **B** −13
  - **C** 15
  - **D** 19

M12795