

Beginning Algebra Placement Test

- Write the set of even numbers between 13 and 18.
- Is the statement $24 \in \{1,2,3, \dots\}$ true or false?
- Evaluate $2 + 4 \cdot 12$
- Find the highest common factor of 16 and 40.
- Find the least common multiple of 18 and 45.
- Evaluate $3 + 7x$ when $x = 4$.
- Simplify $3(2x + 7) + x$.
- Find the truth set of $2(x + 3) = 14$.
- Find the truth set of $5x = 45$.
- Find the truth set of $12x = 72$.
- Evaluate $5 + -11$.
- Evaluate $5 - 3 - 17$.
- Evaluate $-4 + 7 \cdot -3$.
- List the prime numbers between 10 and 20.
- List the composite numbers between 15 and 25.
- Simplify $3x + 2(7x - 4)$.
- Simplify $3x^2 - 4x$.
- Find the truth set of $7x - 4 = 31$.
- Find the truth set of $8x - 3 = 2x + 15$.
- Find the truth set of $4(2x - 3) - 3x = 23$.

- Evaluate $\frac{3}{8} \cdot \frac{5}{7}$
- Evaluate $\frac{-3}{4} \cdot \frac{-7}{6}$
- Evaluate $\frac{2}{5} + \frac{3}{7}$
- Evaluate $\frac{5}{8} - \frac{7}{12}$
- Evaluate $\frac{-3}{4} \cdot \frac{4}{5}$
- Evaluate $\frac{2}{5}$
- Simplify $\frac{5}{6}x - \frac{1}{4}x$
- Simplify $(2x^3y)^3$
- Solve $5x - 7 = 2x + 7$
- Solve $-8 - (2x + 7) = -12$
- Solve $-\frac{2}{5}x = \frac{7}{9}$

Beginning Algebra Placement Test Answers

		Chapter Level		Chapter Level	
1.	{14,16}	1	26.	$\frac{7}{12}x$	8
2.	false	1	27.	$8x^9y^3$	8
3.	50	1	28.	$\frac{14}{3}$	9
4.	8	1	29.	$\left\{\frac{-3}{2}\right\}$	9
5.	90	1	30.	$\left\{\frac{-35}{18}\right\}$	9
6.	31	2			
7.	$7x + 21$	2			
8.	{4}	3			
9.	{9}	3			
10.	{6}	3			
11.	-6	4			
12.	-15	4			
13.	-25	4			
14.	11, 13, 17, 19	4			
15.	16, 18, 20, 21, 22, 24	4			
16.	$17x - 8$	5			
17.	$-12x^3$	5			
18.	5	6			
19.	3	6			
20.	7	6			
21.	$\frac{15}{56}$	7			
22.	$\frac{7}{8}$	7			
23.	$\frac{29}{35}$	7			
24.	$\frac{1}{24}$	7			
25.	$\frac{-21}{20}$	7			