NOTE: This is an abbreviated, print sample of an online test.
Questions answered online are graded automatically with solution detail and step-by-step feedback.

PRACTICE 1: CLEP COLLEGE ALGEBRA EXAM

Course name: College Algebra CLEP Prep

Directions: Here we go. You've studied, you feel confident and ready to give a Practice College Algebra CLEP Exam a try!

The actual College Algebra CLEP Exam is administered on a computer, contains approximately 60 questions, and is limited to 90 minutes.

This Practice College Algebra CLEP Exam also contains 60 questions, but there is no time limit.

You may pause the Practice College Algebra CLEP Exam as often as you need to. Click the "Resume" button to pick up where you left off.

We recommend that you work out the problems on paper and then enter your answer online once you're ready.

Once you're done, review the "Guide" for customized feedback.

Need Help? No Problem! Contact support@thinkwell.com with questions.

Question: 1

Simplify.
$-3[5(4)^2 - 3(5)^2]^2$

Question: 2

Express with only positive exponents.

$$\frac{\left(3^2 x^4 y^4\right)^{-3}}{\left(3^3 x^{-5} y^5\right)^{-5}}$$

Assume that all variables represent nonzero numbers.

- $\frac{x^{37}}{3^9 y^{13}}$
- $\frac{3^9 y^{13}}{x^{37}}$
- $\frac{3^9 y^{37}}{x^{37}}$
- $3^9 x^{37} y^{13}$
- None of the above

Question: 3

Simplify.
$16^{-\frac{3}{4}}$

If the answer is not an integer, enter it as a fraction in simplest form.

Question: 4

Factor the polynomial.
$4x^2 + 24xy - 96y - 16x$

- $4(x+6y)(x-4)(x+4y)$
- $4(x-6y)(x+4)$
- $4(x-6y)$
- $4(x+6y)(x-4)$
- None of the above

Question: 5

Factor:
$100x^4y + 55x^3y^2 - 20x^2y^3$

- $5x^2y(20x^2+11y+4y^2)$
- $5x^2y(5x+4y)(4x-y)$
- $5x^2y(5x+y)(4x-4y)$
- $5x^2y(20x^2+11y-4y^2)$
- None of the above

Question: 6

Simplify.
$\frac{x^3+1}{x^2-8x-9}$

- $\frac{x^2-x-1}{x-9}, x \neq -1, 9$
- $\frac{x^2-x+1}{x-9}, \quad x \neq -1, 9$
- $\frac{x+1}{x-9}, x \neq -1, 9$
- $\frac{x^2+1}{x+9}, x \neq -9, -1$
- None of the above

Question: 7

Simplify.

$\frac{15s^2-8s-16}{3s^2-8s-16} \div \frac{16-25s^2}{15s^2+20s}$

Assume that all variables result in nonzero denominators.

- $\frac{(3s+4)(3s-4)}{(4-5s)(s-4)}$
- $\frac{5s(3s-4)}{(4-5s)(s-4)}$
- $\frac{5s(3s+4)}{(4-5s)(s-4)}$
- $\frac{5s}{(4-5s)(s-4)}$
- None of the above

Question: 8

Simplify:

$\frac{1}{4y} - \frac{1}{y+7} + \frac{1}{y-1}$

- $\frac{y^2+38y-7}{4y(y+7)(y-1)}$, $y \neq -7, 0, 1$
- $\frac{1}{4y-8}$, $y \neq -1, 0, 7$
- $\frac{-1}{4y(y+7)(y-1)}$, $y \neq -7, 0, 1$
- $\frac{9y^2+30y-7}{4y(y+7)(y-1)}$, $y \neq -1, 0, 7$
- None of the above

Question: 9

Simplify. Write imaginary expressions in terms of i.

$\sqrt{-192}$

- $2i\sqrt{48}$
- $8i\sqrt{3}$
- $-8\sqrt{3}$
- $4i\sqrt{12}$
- None of the above

Question: 10

Simplify.
$(-2+4i)^2$

Enter a complex answer in standard form, a + bi.

Question: 11

A rectangular strip of paper has a perimeter of 28 centimeters. If the sum of the length and twice the width is 20 centimeters, find the length of the piece of paper.

Enter the answer in simplest form. If the answer is not a whole number enter it as a decimal where the last digit is not zero and there is a zero before the decimal point for values less than 1.

Question: 12

After taking seven quizzes, your average is 76 out of 100. What must your average be on the next five quizzes to increase your average to 81?

Question: 13

Violet was gathering blueberries along a path from her back door to the rear of her garden. On the way towards the rear of her garden, she walked at an average speed of 6 feet per minute and on the way back to her back door, she walked at an average speed of 15 feet per minute. If the round trip took 28 minutes, how far in feet is it from her back door to the rear of her garden?

Enter the answer as a whole number, or if the answer is not a whole number enter it as a decimal where the last digit is not zero and there is a zero before the decimal point for values less than 1.

Question: 14

Two pumps can fill a water tank in 256 minutes when working together. Alone, the second pump takes 4 times as long as the first to fill the tank. How many minutes does it take the first pump alone to fill the tank?

Express the answer in minutes and round the answer to the nearest minute if needed.

Question: 15

Question: 16

Linda pays $115 per day to rent the stand where she sells wind chimes. The materials for each chime costs $4.50, and she sells each chime for $6. How many wind chimes must she sell to make a profit of $317 per day?

- 135 chimes
- 202 chimes
- 288 chimes
- 432 chimes
- None of the above

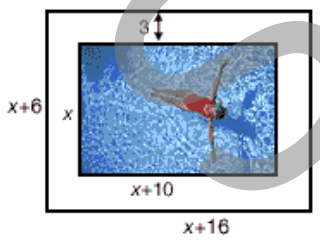
Question: 17

Which is the solution set of the equation?
$8x^2 + 10x - 25 = 0$

- $\left\{-\frac{5}{2}, -\frac{5}{4}\right\}$
- $\left\{\frac{5}{4}, \frac{5}{2}\right\}$
- $\left\{-\frac{5}{4}, \frac{5}{2}\right\}$
- $\left\{-\frac{5}{2}, \frac{5}{4}\right\}$
- None of the above

Question: 18

A rectangular swimming pool is 10 ft longer than it is wide, and it has a surrounding deck of width 3 ft on each side of the pool. If the area of the pool and deck is 1,911 ft^2, find the dimensions of the outside edge of the deck.



Enter the length, followed by a comma, followed by the width, where the length is the longer of the two dimensions. Round the dimensions to the nearest whole number, if needed. If there is no solution, "no solution" should be entered.

Question: 19