Education Improvement Internet Library has free material for teachers, administrators, and parents.

Our 28 Free Internet Libraries have academic and career materials for students, teachers, and professionals.

Appendix 2 Pretest and Posttest Solutions

Our Student Internet Library has free material for students, teachers, and parents.

Pretest Solutions

These pretest solutions have been provided to help students understand how to do those pretest problems answered incorrectly. If looking at the solution does not make the math required to do the problem clear, study the learning unit that matches the problem's number.

Education Internet Library covers the economics of education, reforming education ...

nine?	thousand two hundred				ndred.
A) 6,290 B) 6,209		5,300			
C) 6,909 D) 6,299	Answer B	(A. (B		V I	
3A) 36 + 472 + 8 =	3B) 502 - 58 =	4A)	(206)(35) =	S- 3-	1,091
36 472 + <u>8</u>	502 - <u>58</u> 444	agA	206 × <u>35</u> 1030 618	4B) 56)6 5	1 0 9 6 6 5 0 0 0
516 13.8 2.4 × 1881	165			6 + 60,44 + 22,0 1 + 6 07,400 63,440 + 22,900	
5) Simplify 24 + (6 - 3)(4) - 5 ²	6) Which of the following is not a prime number? A) 7 B) 11 C) 13 D) 15 Answer _ D_			7) Which of is less th	the following an $\frac{3}{4}$?
24 + (6 - 3)(4) - 5 ²				A) $\frac{3}{5}$	B) 4/5
24 + (3)(4) - 25	F 10 M			C) 12/16	D) $\frac{13}{16}$
24 + 12 - 25 36 - 25				Fifths are sr fourths so 3 than 3/4.	maller than /5 is smaller
11				Answer A	_

8) Write an equivalent fraction for $\frac{3}{5}$. $\frac{3}{5} = \frac{3}{20}$ $\frac{3}{5} = \frac{3 \times 4}{5 \times 4} = \frac{12}{20}$	9) $\frac{3}{7} + \frac{2}{7} = \frac{3+2}{7} = \frac{5}{7}$	10) $\frac{8}{9} - \frac{4}{6} =$ $\frac{8}{9} = \frac{8 \times 2}{9 \times 2} = \frac{16}{18}$ $-\frac{4}{6} = \frac{4 \times 3}{6 \times 3} = -\frac{12}{18}$ $\frac{4}{18} = \frac{2}{9}$
11) $\frac{21}{4} \div \frac{7}{8} =$ $= \frac{21}{4} \times \frac{8}{7}$ $= 6$	12) $4\frac{1}{4} - 2\frac{1}{3} =$ $4\frac{1}{4} = 4 + \frac{1 \times 3}{4 \times 3} = 4\frac{3}{12} = 3\frac{15}{12}$ $-2\frac{1}{3} = -2 + \frac{1 \times 4}{3 \times 4} = -2\frac{4}{12}$ $-\frac{2\frac{1}{12}}{1\frac{11}{12}}$	13A) $25 \times 3\frac{2}{5} =$ $= \frac{5}{25} \times \frac{17}{5}$ $= 85$
13B) $6 \div \frac{3}{7} =$ $= \frac{6}{1} \div \frac{3}{7}$ $= \frac{\frac{6}{1}}{1} \times \frac{\frac{7}{3}}{\frac{3}{3}}$	Note: Borrowing was required. 14) Which of the following is smallest? A) 56.186 B) 56.086 C) 56.400 D) 56.350	15) Round 3456.3764 to the nearest hundredth. 3,456.38
= 14 16A) 7.4 + 63.44 + 22.9 + 12 111 07.400 63.440 + 22.900	Answer <u>B</u> 2.015 =	16B) 4.3 × 6.27 = 6.27 × 4.3 1881
12.015 105.755 17) .4) 56 .4.) 56.0. .4.) 56.0. .4.) 60. .4	18) A class of 24 students has 14 males. Write the ratio of males to the full class. $14:24 \text{ or } \frac{14}{24} = \frac{7}{12}$	$ \frac{2508}{26.961} $ 19) Choose the correct symbol.(>, <, =) $ \frac{3}{7} - \frac{9}{21} $ $ 3 \times 21 ? 7 \times 9 $ $ 63 = 63 $ $ \frac{3}{7} = \frac{9}{21} $

20) Solve for x. $\frac{3}{8} = \frac{x}{24}$ $(3)(24) = (8)(x)$	21A) Write 1/5 as a percent. $\frac{1}{5} \times \frac{100\%}{1} = \frac{100\%}{5} = 20\%$	22A) Write 45% as a fraction. $(45)(\frac{1}{100}) = \frac{45}{100}$ $\frac{45}{100} = \frac{45+5}{100+5} = \frac{9}{20}$
8x = 72 $x = 9$	21B) Write .6 as a percent. .6×100% = 60%	22B) Write 8% as a decimal. $8 \times .01 = .08$
23A) What is 7% of 40? $\frac{7}{100} = \frac{x}{40}$ $(7)(40) = (100)(x)$ $280 = 100x$ $x = 2.8$	23B) 20 is 40% of what number? $\frac{40}{100} = \frac{20}{x}$ $40x = (100)(20)$ $40x = 2,000$ $x = 50$	23C) 8 is what percent of 40? $\frac{x}{100} = \frac{8}{40}$ $40x = (100)(8)$ $40x = 800$ $x = 20\%$
24A) If something increases from 20 to 30, what is the percent increase? $\frac{x}{100} = \frac{10}{20}$ $20x = (100)(10)$ $20x = 1,000$	24B) What is the result when 30 is decreased by 25%? use a proportion to determine change $\frac{25}{100} = \frac{x}{30}$ $(25)(30) = 100x$ $750 = 100x$ $x = 7.5$ answer is $30 - 7.5 = 22.5$	25A) $(12)^2 =$ $ \begin{array}{r} 12 \\ \times 12 \\ 24 \\ \underline{12} \\ 144 \end{array} $
25B) $(.4)^2 =$.4 $\times .4$.16	25C) √64 = 8 Note: 8 x 8 = 64	25D) √.09 = .3 Note: .3 x .3 = .09