

Math Review Test

I. Express in Roman numerals:

1. 14 _____

3. 36 _____

2. $8 \frac{1}{2}$ _____

4. 25 _____

II. Express in Arabic numbers:

1. XIII _____

3. XLII _____

2. XXIX _____

4. XXXVIII _____

III. Reduce the following factors to the lowest terms:

1. $\frac{15}{25}$ _____

3. $\frac{12}{52}$ _____

2. $\frac{8}{28}$ _____

4. $\frac{20}{55}$ _____

IV. Change the following improper fractions to whole or mixed numbers. Reduce to the lowest terms:

1. $\frac{11}{2}$ _____

3. $\frac{17}{7}$ _____

2. $\frac{17}{6}$ _____

4. $\frac{13}{8}$ _____

V. Change the following mixed numbers to improper fractions:

1. $3 \frac{5}{9}$ _____

3. $5 \frac{3}{16}$ _____

2. $6 \frac{4}{13}$ _____

4. $8 \frac{5}{14}$ _____

VI. Circle the **larger** fraction in each pair:

1. $\frac{6}{13}$ or $\frac{9}{13}$

2. $\frac{3}{7}$ or $\frac{8}{11}$

3. $\frac{8}{11}$ or $\frac{8}{19}$

4. $\frac{4}{15}$ or $\frac{6}{7}$

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VII. Circle the **smaller** fraction in each pair:

1. $8/17$ or $4/17$

2. $2/11$ or $2/13$

3. $6/13$ or $7/16$

VIII. Add the following fractions and mixed numbers and reduce to the lowest terms:

1. $4 \frac{2}{5}$	2. $4 \frac{2}{3}$	3. $9 \frac{2}{3}$
$2 \frac{1}{2}$	$\frac{1}{4}$	$3 \frac{2}{5}$
<u>+ $3/4$</u>	<u>+ $5/6$</u>	<u>+ $3/4$</u>

IX. Subtract the following fractions:

1. $2 \frac{1}{4}$	2. $5 \frac{1}{2}$	3. $6 \frac{1}{4}$
<u>- $6 \frac{1}{3}$</u>	<u>- $1 \frac{1}{3}$</u>	<u>- $6 \frac{1}{6}$</u>

X. Multiply the following fractions and mixed numbers:

1. $3 \frac{5}{6} \times 4 \frac{1}{8} =$ _____

2. $2 \frac{1}{6} \times 5 \frac{1}{2} =$ _____

3. $1 \frac{2}{4} \times 7 =$ _____

4. $5 \frac{1}{3} \times 2 \frac{6}{8} =$ _____

XI. Change the following decimals to fractions and reduce to the lowest terms:

1. $0.125 =$ _____

3. $0.635 =$ _____

2. $0.45 =$ _____

4. $0.007 =$ _____

XII. Circle the **larger** of the two decimals:

1. 0.3 or 0.06

2. 0.02 or 0.025

3. 0.12 or 0.078

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XIII. Rewrite the following fractions as ratios, percentages, and decimals. (1 pt. each)

FRACTION	RATIO	PERCENTAGE	DECIMAL
1. $\frac{2}{5}$	= _____	= _____	= _____
2. $\frac{2}{9}$	= _____	= _____	= _____
3. $\frac{8}{28}$	= _____	= _____	= _____
4. $\frac{6}{15}$	= _____	= _____	= _____

XIV. Solve the following percentage problems:

1. 6% of 85 = _____
2. 0.8% of 132 = _____
3. 1.8% of 28 = _____
4. 0.09% of 68 = _____

XV. Solve for “x” in the following proportions:

1. $2 : 7 :: 5 : X/2$
2. $1/2 : X :: 2/3 : 12$
3. $X/15 = 7/20$
4. $13X : 3 :: 1/3 : 1/26$
5. $3/4 = 5X/1.5$
6. $3 : 14 :: 3/4 : X/3$
7. $X/5 = 3/8$
8. $4/22 = 6/ X/2$
9. $5 : 13 :: X/2 : 17$
10. $8 : 12 :: 5 : 3X$

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XVI. Convert the following to the equivalent measures indicated:

- | | |
|-------------------------|-------------------------|
| 1. 0.002 kg = _____ mg | 13. 0.135 L = _____ mL |
| 2. 6.5 tbs = _____ oz | 14. 60 gtts = _____ tsp |
| 3. 220 lbs = _____ Kg | 15. 96°F = _____ °C |
| 4. gr iiiss = _____ mg | 16. 17.5 cm = _____ in |
| 5. 0.480 L = _____ pt | 17. 7 mL = _____ gtts |
| 6. 3½ tbs = _____ tsp | 18. 150 mg = _____ g |
| 7. 35.4°C = _____ °F | 19. 4 qt = _____ mL |
| 8. 45 mL = _____ dr | 20. 3.05 g = _____ mg |
| 9. dr xxviiss = _____ m | 21. 0.45 g = _____ gr |
| 10. 103.6°F = _____ °C | 22. 44°C = _____ °F |
| 11. 84 lbs = _____ Kg | 23. 65 Kg = _____ lbs |
| 12. 120 cm = _____ in | 24. 3.5 qt = _____ L |

XVII. Convert from traditional times to 24 hour time or vice versa:

- | | |
|----------------------------------|-----------------------|
| 1. 10:45 pm = _____ hrs. | 5. 0215 hours = _____ |
| 2. 12:00 (Midnight) = _____ hrs. | 6. 2355 hours = _____ |
| 3. 5: 27 am = _____ hrs. | 7. 1020 hours = _____ |
| 4. 11:15 am = _____ hrs. | 8. 1530 hours = _____ |