

# Unit 4: Pre-Algebra \* Early Fractions Review Packet

Name \_\_\_\_\_ Per \_\_\_\_\_

Name: \_\_\_\_\_

Score: \_\_\_\_\_

## Exponents

(A) Rewrite in expanded form:

1)  $23^7$

= \_\_\_\_\_

2)  $3^8$

= \_\_\_\_\_

3)  $5^9$

= \_\_\_\_\_

4)  $18^6$

= \_\_\_\_\_

(B) Rewrite in exponent form:

1)  $4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$

= \_\_\_\_\_

2)  $22 \times 22 \times 22 \times 22 \times 22 \times 22$

= \_\_\_\_\_

3)  $9 \times 9 \times 9 \times 9$

= \_\_\_\_\_

4)  $17 \times 17 \times 17 \times 17 \times 17$

= \_\_\_\_\_

(C) Rewrite in standard form:

1)  $2^{10}$

= \_\_\_\_\_

2)  $11^3$

= \_\_\_\_\_

3)  $4^4$

= \_\_\_\_\_

4)  $13^2$

= \_\_\_\_\_

5)  $5^4$

= \_\_\_\_\_

6)  $9^3$

= \_\_\_\_\_

7)  $8^3$

= \_\_\_\_\_

8)  $15^2$

= \_\_\_\_\_

9)  $1^9$

= \_\_\_\_\_

10)  $6^4$

= \_\_\_\_\_

## Order of Operations

1)  $3 \times 5 \times (6 - 3)$

6)  $3 \times 11 \times (2 + 6)$

2)  $(9 + 42 - 3) + 3$

7)  $(14 + 4) + 24 + 6$

3)  $(11 + 4) \times 9 - 5$

8)  $(15 + 5) + 10 + 5$

4)  $(21 - 8) \times 12 + 4$

9)  $(9 + 51) + (7 - 5)$

5)  $(8 + 34 - 6) + 3$

10)  $(10 + 14) + (5 + 7)$



Complete the Numerical Series

- 1) 18, 23, 20, 25, 22, 27, 24, \_\_, \_\_, \_\_
- 2) 7, 13, 11, 17, 15, 21, 19, \_\_, \_\_, \_\_
- 3) 25, 29, 26, 30, 27, 31, 28, \_\_, \_\_, \_\_
- 4) 10, 14, 8, 12, 6, 10, 4, \_\_, \_\_, \_\_
- 5) 2, 9, 5, 12, 8, 15, 11, \_\_, \_\_, \_\_
- 6) 6, 10, 8, 12, 10, 14, 12, \_\_, \_\_, \_\_
- 7) 10, 11, 5, 6, 0, 1, -5, \_\_, \_\_, \_\_
- 8) 13, 14, 10, 11, 7, 8, 4, \_\_, \_\_, \_\_
- 9) 11, 14, 7, 10, 3, 6, -1, \_\_, \_\_, \_\_
- 10) 13, 18, 17, 22, 21, 26, 25, \_\_, \_\_, \_\_

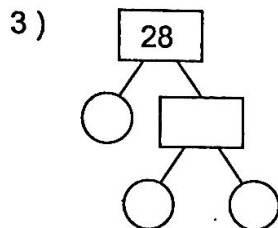
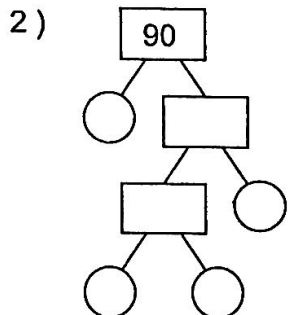
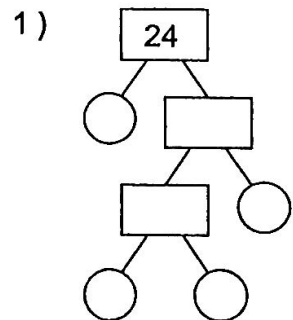
Name \_\_\_\_\_ Date \_\_\_\_\_

Is the number to left of each row divisible by the number at the top of each column? Write yes or no in each box.

	2	3	4	5	6	9
39						
26						
30						
81						
84						
35						
41						
45						
80						
79						



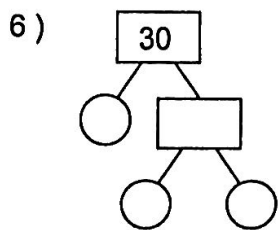
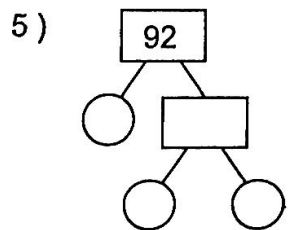
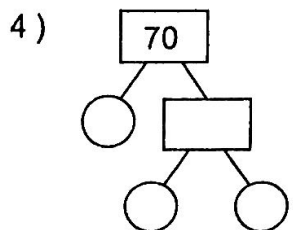
Find the Prime Factors of the Numbers



Prime Factors  
\_ x \_ x \_ x \_ = 24

Prime Factors  
\_ x \_ x \_ x \_ = 90

Prime Factors  
\_ x \_ x \_ = 28



Prime Factors  
\_ x \_ x \_ = 70

Prime Factors  
\_ x \_ x \_ = 92

Prime Factors  
\_ x \_ x \_ = 30

Find the Least Common Multiple for each number pair.

- 1) 24, 10 \_\_\_\_\_
- 2) 60, 6 \_\_\_\_\_
- 3) 20, 40 \_\_\_\_\_
- 4) 3, 4 \_\_\_\_\_
- 5) 10, 40 \_\_\_\_\_
- 6) 20, 60 \_\_\_\_\_
- 7) 5, 60 \_\_\_\_\_
- 8) 2, 10 \_\_\_\_\_
- 9) 10, 15 \_\_\_\_\_
- 10) 4, 24 \_\_\_\_\_
- 11) 3, 5 \_\_\_\_\_
- 12) 6, 8 \_\_\_\_\_
- 13) 15, 6 \_\_\_\_\_
- 14) 6, 4 \_\_\_\_\_
- 15) 5, 15 \_\_\_\_\_



Simplify Fractions *Find the GCF*

- 1)  $\frac{10}{25} = \underline{\quad}$       11)  $\frac{42}{60} = \underline{\quad}$
- 2)  $\frac{9}{72} = \underline{\quad}$       12)  $\frac{12}{36} = \underline{\quad}$
- 3)  $\frac{20}{70} = \underline{\quad}$       13)  $\frac{35}{56} = \underline{\quad}$
- 4)  $\frac{20}{30} = \underline{\quad}$       14)  $\frac{20}{50} = \underline{\quad}$
- 5)  $\frac{4}{16} = \underline{\quad}$       15)  $\frac{60}{70} = \underline{\quad}$
- 6)  $\frac{18}{27} = \underline{\quad}$       16)  $\frac{36}{54} = \underline{\quad}$
- 7)  $\frac{3}{12} = \underline{\quad}$       17)  $\frac{45}{90} = \underline{\quad}$
- 8)  $\frac{8}{16} = \underline{\quad}$       18)  $\frac{30}{36} = \underline{\quad}$
- 9)  $\frac{6}{54} = \underline{\quad}$       19)  $\frac{32}{72} = \underline{\quad}$
- 10)  $\frac{3}{6} = \underline{\quad}$       20)  $\frac{20}{45} = \underline{\quad}$

Directions: Complete the following table. The top row has been filled in for you to use as a model.

Expanded Notation	Exponential Notation	Standard Notation
$2 \times 2$	$2^2$	4
$6 \times 6$	$3^4$	
$10 \times 10 \times 10 \times 10$	$11^2$	
$8 \times 8$	$7^3$	
$4 \times 4 \times 4$		
Challenge:		
		140
		200
		168