Determine if the following statement is True or False:

$$3 \times 4 = 4 + 4 + 4$$

MCQ 22: Determine if the following statement is True or False: $3^2 = 2 \times 2 \times 2$

 \Box True

 \Box False

 $7 \times 7 \times 7 =$ **Ex 5:** Write in exponent form: $10 \times 10 \times 10 \times 10 \times 10 =$ **EXPRESSIONS Ex 6:** Write in exponent form: 2 raised to the power 3 =**Ex 7:** Write in exponent form: 5 raised to the power 2 =**Ex 8:** Write in exponent form: 7 raised to the power 4 =**Ex 9:** Write in exponent form: 10 raised to the power 5 =A.3 CALCULATING POWERS **Ex 10:** Evaluate the power: $2^3 =$

A.2 WRITING IN EXPONENT FORM FROM VERBAL

A.4 EXPRESSING NUMBERS IN EXPONENT FORM

Ex 14: Write in exponent form:

8 =

Ex 15: Write in exponent form:

27 =

Ex 16: Write in exponent form:

Ex 17: Write in exponent form:

100 =

16 =

A.5 INTERPRETING POWERS

Determine if the following statement is True or MCQ 18: False:

$$2^3 = 2 + 2 + 2$$

```
\Box True
```

 \Box False

MCQ 19: Determine if the following statement is True or False:

 $3^2 = 2 \times 2 \times 2$

□ True

 \Box False

MCQ 20: Determine if the following statement is True or False: $4^3 = 4 \times 4 \times 4$

 \Box True

 \Box False

MCQ 21:

 \Box True

 \Box False

Ex 13: Evaluate the power:

Ex 11: Evaluate the power:

Ex 12: Evaluate the power:

 $10^3 =$

 $5^2 =$

 $3^4 =$

1

IN

EXPONENT

Ex 2: Write in exponent form:

WRITING REPEATED MULTIPLICATION

 $3 \times 3 \times 3 \times 3 =$

 $2 \times 2 \times 2 =$

Ex 3: Write in exponent form:

Ex 4: Write in exponent form:

A DEFINITIONS

EXPONENT FORM

Ex 1: Write in exponent form:

A.1

 $5 \times 5 =$

A.6 EVALUATING EXPRESSIONS WITH POWERS

Ex 23: Evaluate the expression:

 $2^3 \times 3^2 =$

Ex 24: Evaluate the expression:

 $3^2 \times 10^2 =$

Ex 25: Evaluate the expression:

 $6 \times 10^3 =$

Ex 26: Evaluate the expression:

 $2.5 \times 10^2 =$

A.7 CHECKING EQUALITY BETWEEN PRODUCTS AND POWERS

MCQ 27: Determine if the following statement is True or False:

 $2 \times 2 \times 3 \times 3 = 2^4$

 \Box True

 \Box False

MCQ 28: Determine if the following statement is True or False:

 $2\times 2\times 2=3^2$

 \Box True

 \Box False

MCQ 29: Determine if the following statement is True or False:

 $2\times 3\times 2\times 3=2^2\times 3^2$

 \Box True

 \Box False

MCQ 30: Determine if the following statement is True or False: $5 \times 5 \times 5 \times 4 = 5^3 \times 2^2$

 \Box True

 \Box False

B ORDER OF OPERATIONS

B.1 EVALUATING EXPRESSIONS WITH EXPONENTS IN 2 STEPS

Ex 31: Evaluate this expression:

 $2 \times 5^2 =$

Ex 32: Evaluate this expression:

 $2^3 - 1 =$

Ex 33: Evaluate this expression:



Ex 34: Evaluate this expression:



Ex 35: Evaluate this expression:

 $(5-2)^2 =$

B.2 EVALUATING EXPRESSIONS WITH EXPONENTS IN 3 STEPS

Ex 36: Evaluate this expression:



Ex 37: Evaluate this expression:

 $(2+1)^2 - 1 =$





Ex 39: Evaluate this expression:



B.3 FINDING THE OPERATORS



Ex 41:

 $\begin{array}{c} \Box + \\ 3^3 \quad \begin{array}{c} \Box - \\ \Box \times \\ \end{array} \quad 2^2 = 23 \\ \Box \div \end{array}$

(°±°)

Ex 42:

$$2^{3} \begin{array}{c} \square + \\ \square - \\ \square \times \\ \square \div \end{array} 4 = 2$$

Ex 43:

$$\begin{array}{c} \Box + \\ (2+1)^2 & \overline{\Box} - \\ \Box \times \\ \Box \div \end{array} 1 = 10$$