

**13 Maths**  
Exponents and Powers

**Grade - 7**

**Posttest Subjective**

Time : 20 minutes

Marks :  / 20

**Very short answer**

**8 Marks**

**1. State the greater of each pair.**

a.  $2^3, 3^2$

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b.  $(-5/6)^3, (-2/5)^4$

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**2. Express each of the given numbers in exponential form.**

a. 100

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b. 1125

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c. -16/81

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d. 121/289

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**3. Evaluate :-**

a.  $2^4$

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b.  $(1/2)^5$

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**4. Write the reciprocal of the exponential form of the given numbers.**

a. 625/81

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b.  $(12^2 - 11^2) + 2$

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**13 - Exponents and Powers**

**Posttest Subjective**

**Short answer**

**12 Marks**

**1. Show that law III holds for :**

a.  $(2^2)^3 = 64$

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b.  $\{(-2/3)^2\}^3 = (-2/3)^6$

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**2. Show that law I holds for :**

a.  $3^2 \times 3^4 = 3^6$

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b.  $(3/4)^2 \times (3/4)^3 = (3/4)^5$

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**3. Find the value of x using suitable rules of indices.**

a.  $(7/11)^8 \times (7/11)^3 = (7/11)^x$

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b.  $(10/13)^8 \times (10/13)^5 \times (10/13)^2 = (10/13)^{3x}$

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**4. Verify law II for :**

a.  $4^3 \div 4^2 = 4$

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b.  $(-3)^4 \div (-3)^2 = 9$

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c.  $(-2/9)^8 \div (-2/9)^5 = (-8/729)$

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