1) Evaluate the following with rational exponents 8?

Ninth Grade - Real Number System

 5 6 4 7
2) Evaluate the following with rational exponents (27)??
 3/2 2/3 1/8 1/9
3) Evaluate the following with rational exponents (100) ^{3/2}
3000200010004000
4) Evaluate the following with rational exponents 9 ^{3/2}
 45 28 12 27
5) Evaluate the following with rational exponents (x²)½

- x²
- X
- 2x²
- 2x
- 6) Evaluate the following with rational exponents (64a?)?
 - 2a
 - 3a²
 - 2a²
 - 3a
- 7) Evaluate (y^{12}) $\frac{1}{4}$ with rational exponents
 - y
 - y²
 - y³
 - 2y
- 8) Evaluate (a?) $\frac{1}{4}$ with rational exponents
 - a²
 - a
 - 2a
 - a³
- 9) Solve (4)? / (4) 2 using the properties of exponents
 - 64
 - 32
 - 21
 - 45

- 10) Solve the following using the properties of exponents (y)? \times (y)?
 - 3y
 - y²
- 11) Solve $(x)^{1/4} \times (x)^{1}$ using the properties of exponents

- a) $(x)^{5/4}$ b) $(x)^{3/4}$ c) $(x)^{3/5}$ d) $(x)^{4/5}$
 - d
- 12) Solve $(y)^1 \times (y)^2$ using the properties of exponents

 - 2y
- 13) Solve the properties of exponents? (x)? \times (x)??
- 14) Solve (5)?/(5)² the using properties of exponents

- 13
- 35
- 45
- 25
- 15) Solve the following using the properties of exponents

$$(x)^y \div (x)^z$$

$$a.(x)^{x/w} b.(x)^{x/z} c.(x)^{z/x} d.(x)^{y-z}$$

- b
- a
- c
- d
- 16) Solve the following using the properties of exponents

$$(8)^x \div (8)^y$$

a)
$$(8)^{z-y}$$
 b) $(8)^{z-x}$ c) $(8)^{x-y}$ d) $(8)^{x-x}$

- C
- d
- b
- a
- 17) Solve the following using the properties of exponents (4^3/2)²
 - 65
 - 12
 - 64
 - 45

18) Solve the following using the properties of exponents

$$(1/2^5)^{1/4}$$

(a)
$$(1/2)^{5/3}$$
 (b) $(1/2)^{5/4}$ (c) $(1/2)^{4/3}$ (d) $(1/2)^{3/4}$

- a
- d
- b
- C

19) Solve the following using the properties of exponents

$$(y^a)^{b/4}$$

$$a)(y^{ab/4})b)(y^{3a})c)(y^{3a/2})d)(y^{3a/3})$$

- C
- a
- h
- d

20) Solve $(9 \times 4)\frac{1}{2}$ using the properties of exponents

- 9
- 4
- 6
- 7

21) Solve $(5 \times 2)^2$ using the properties of exponents

- 200
- 245
- 100
- 124

22) Solve the following using properties of ex	kponents (8/27) ?
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- 2/3
- 4/2
- 8/9
- 3/7

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- x?/z?
- x?/z?
- x½/z?
- x² / z²

24) Solve (7/2)? using the properties of exponents

- 8?/3?
- 7?/2?
- 2?/3?
- 8x/5x

25) Solve (7/5)?3 using the properties of exponents

- (9/7)2
- (5/7)³
- (5/7)²
- $(5/9)^3$

26) Solve the following using properties of exponents (12? / 4?)?2

• (1/5)?



• (2/9)?

• (1/3)?

27) Solve the following using properties of exponents x?½/y??

- x? / y½
- X½
- y? / x½
- y?

28) Solve the following using properties of exponents

$$(7)^{-x}/(8)^{-y}$$

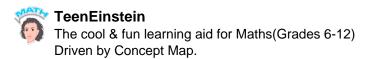
a)
$$(5)^{y}/(3)^{x}$$
 b) $(4)^{y}/(3)^{x}$ c) $(9)^{y}/(7)^{x}$ d) $(8)^{y}/(7)^{x}$

- b
- 0
- a
- d

29) Solve
$$(5 \times 5)^2$$
 using the properties of exponents?

- 123
- 457
- 625
- 478

30) Solve the following using properties of exponents



$$(8)^{-mx} / (6)^{-ny}$$

$$a)8/6$$
 $b)7/6$ $c)3/6$ $d)(6)^{ny}/(8)^{mx}$

- a
- d
- C
- h