

Given $u, m, +B$ install tiles. Jan 15/16

Uri installs 2000 tiles in 10h.

Max " " " " 12h

Boris " " " " 15h

Find how long working together...

Let x = the combined time.

$$\frac{6x}{10 \times 6} + \frac{5x}{12 \times 5} + \frac{4x}{15 \times 4} = \frac{1 \times 60}{1 \times 60}$$

$15x = 60$
 $x = 4$

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The Exponent Rules

1. Multiplication Rule

$$\begin{aligned} & 5^3 \times 5^4 \\ &= 5^{3+4} \\ &= 5^7 \end{aligned}$$

When multiply exponents to the same base, add the exponents

10. Division Rule

$$4^5 \div 4^3 = 4^2$$

When you divide exponents to the same base, you subtract the exponents

15. Rule of Zero

$$\begin{aligned} 5^8 &\div 5^8 \\ &= 5^{8-8} \\ &= 5^0 \\ &= 1 \end{aligned}$$

Anything to the
Power of Zero
equals 1.

18. $(2^3)^4$ Power Rule

$$= 2^{12}$$

27. $5^3 \times 5^x = 5^7$

$3 + x = 7$

$$x = 4$$

Homework p.18

Review Package