

MONDAY

Which of the following expressions is equivalent to the one below? $(b^3 + 5b^2 - 2b) - (b^3 + b - 1)$ A. $5b^2 - b$ B. $5b^2 - 3b + 1$ C. $4b^2 - b$ D. $5b^2 - 3b - 1$	A store has a display with pencils that are for sale. The owner typically sells 6 pencils a day. The display holds 50 pencils on day 1. The owner insists that there be no fewer than 32 pencils in the display. When should the owner restock the display? A. in more than 3 days ($d > 3$) B. in less than 3 days ($d < 3$) C. in 3 days or less ($d \leq 3$) D. in 3 days or more ($d \geq 3$)
How many factors does the expression $-3ab(a + b)$ have?	Which sum is rational? A. $\pi + 18$ B. $\sqrt{25} + 1.75$ C. $\sqrt{3} + 5.5$ D. $\pi + \sqrt{2}$
Find the GCF of the terms in the trinomial. $12a^5b^2 - 36a^4b^3 - 6a^2b^2$	Find the GCF of the terms in the trinomial. $m^3n - m^2n^2 + 5mn^3$
Find the GCF of the terms in the trinomial. $14gh^2 + 28gh + 14h$	Find the GCF of the terms in the trinomial. $3a^3b^2c - 9a^2b^3c^2 + 15ab^4c^3$

TUESDAY

6. A roller coaster at Six Flags is 1.5 kilometers long. How many miles is this? 1 km = 0.621 miles	Julia takes a taxi to meet her husband at the park. Her husband will give her a ride home. She only has \$32.04 to spend and a taxi costs \$4.00 plus \$0.36 per mile. What is the maximum number of miles that Julia may travel before she has to walk the rest of the way to the park? A. 75 miles B. 76 miles C. 77 miles D. 78 miles
Factor the following. a. $-2a^2b + 4ab^2$ b. $9x - 12$ c. $4a^2 + 8ab + 12a$	Factor the following. a.) $5xyz + 10xy$ b.) $7x^4 - 14x^2 + 21x$ c.) $12x^2 - 6x$

WEDNESDAY

Which equation is equivalent to $5n = 3(t - 4)$ when solved for t ?

A. $t = \frac{5n-3}{4}$
 C. $t = \frac{5n+12}{3}$

B. $t = \frac{5n-4}{3}$
 D. $t = \frac{5n-12}{3}$

What is the product of $7x - 4$ and $8x + 5$

- A. $15x + 1$
 B. $30x + 2$
 C. $56x^2 + 3x - 20$
 D. $56x^2 - 3x + 20$

Multiply the following binomials using FOIL.

a.) $(x - 5)(x + 5)$

b.) $(3x - 7)(3x + 7)$

c.) $(4 + 3x)(4 - 3x)$

Factor

$$14x^3 - 7x^2 + 2xy - y$$

Factor

$$4x^3 + 20x^2 - 9x - 45$$

Factor the following:

$$20h - 4b =$$

$$5x^8 - 15x^6 + 3x^2 =$$

Factor Completely:

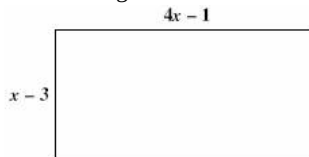
$$4a^3 - a^2b - 36a + 9b$$

THURSDAY

Cori drew a rectangle with expressions that give the length and width, as shown below.

What is the difference between the longer side and the shorter side?

- A. $3x - 4$
 B. $3x - 2$
 C. $3x + 2$
 D. $3x + 4$



Which of the following is equivalent to $ab(b^2 + a)$?

- A. $ab^3 + a^2$
 B. $ab^3 + a^2b$
 C. $ab + a^2b$
 D. $ab^2 + ab$

Which statement is true about the value of $(\sqrt{8} + 4) \cdot 4$?

- A. It is rational, because the product of two rational numbers is rational.
 B. It is rational, because the product of a rational number and an irrational number is rational.
 C. It is irrational, because the product of two irrational numbers is irrational.
 D. It is irrational, because the product of an irrational number and a rational number is irrational.

Factor:

$$1 - 4x^2$$

Factor the following:

$$36m^2 - 49n^2 =$$

$$100 - 9w^2 =$$

Factor twice. First, GCF, then DOTS:

$$3x^2 - 27$$

Find two numbers that multiply together to equal 32, and add together to equal 33.

Find two numbers that multiply to equal Positive 14, but add to equal -9.

Find two numbers that multiply together to equal 15 and add together to equal 8.

Find two numbers that multiply to equal -10 and add to equal +3