

MISSION 7 ★

GEAR UP: FRACTIONS & DECIMALS



Fractions and decimals help robots make precise moves!

⚙️ FRACTION FIX: Write each fraction in simplest form.

a $\frac{8}{12} =$ _____

d $\frac{14}{21} =$ _____

b $\frac{6}{9} =$ _____

e $\frac{9}{12} =$ _____

c $\frac{10}{15} =$ _____

f $\frac{20}{28} =$ _____



⚙️ DECIMAL DASH: Write each decimal in expanded form.

a $3.47 =$ _____

d $0.73 =$ _____

b $5.206 =$ _____

e $9.604 =$ _____

c $12.805 =$ _____

f $45.271 =$ _____

⚙️ COMPARE & CONNECT: Use $<$, $>$, or $=$ to compare.

a $\frac{3}{4} \bigcirc 0.75$

d $\frac{4}{5} \bigcirc 0.81$

b $2.5 \bigcirc 2\frac{1}{2}$

e $\frac{7}{10} \bigcirc 0.69$

c $0.625 \bigcirc \frac{5}{8}$

f $1.04 \bigcirc 1\frac{1}{20}$



ROBOT TIP

To expand a decimal, write each digit times its place value.

Tens	Ones	Tenths	Hundredths	Thousandths
1	2	8	0	5
$12.805 = 10 + 2 + 0.8 + 0 + 0.005$				

Great work! Precision makes perfect robots!

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MISSION 8

CHALLENGE MODE: LOGIC & MATH



Use logic. Use math. Solve like an engineer!

1 LOGIC CIRCUIT: Find the missing number in each sequence.

a 2, 4, 8, 16, 32, _____

b 3, 6, 12, 24, 48, _____

c 5, 10, 20, 40, _____, 160

d 1, 4, 9, 16, 25, _____, 49



THINK!

Look for the pattern first! What's changing? What stays the same?

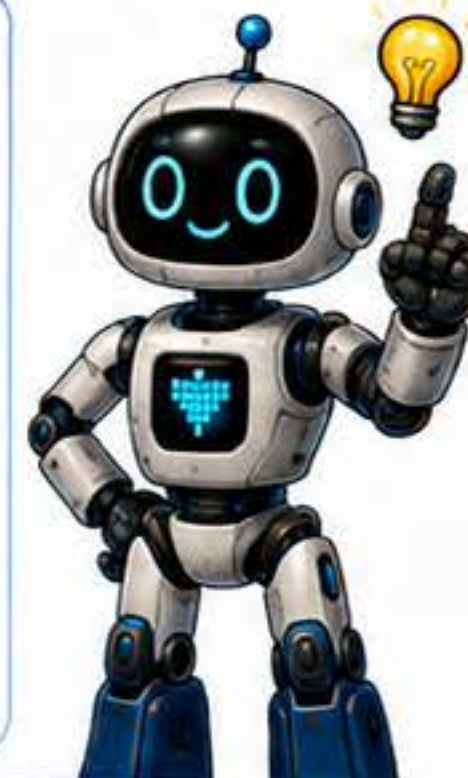
2 ROBOT BRAIN TEASER: Solve each word problem.

a Robot Robo builds 18 robots per day. How many robots will he build in 9 days?

b A crate has 432 bolts. They are packed evenly into 8 smaller boxes. How many bolts are in each box?

c The factory made 1,276 parts on Monday, 1,489 parts on Tuesday, and 1,235 parts on Wednesday. How many parts were made in all three days?

ANSWER



3 ENGINEER EXTREME: Create an equation that fits the clue.

a The sum of 2 numbers is 36. One number is 14. What is the other number? _____

b Triple a number, then add 7. You get 28. What is the number? _____

c A crate holds 24 bolts in each row. There are 6 rows. Write an equation for the total bolts. _____



BRAIN BOOST

Draw it. List it. Try it. Check it. That's how engineers win!



MISSION 8 COMPLETE! You're a math-powered engineer!

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