

MISSION 9 ★

MEGA MATH MIX



A mix of everything you know!
Show your skills, robot engineer!

1 SOLVE IT! *Solve each problem.*

a $\frac{3}{5} + \frac{1}{5} =$ _____

d $4.6 - 2.38 =$ _____

g 15% of 80 = _____

b $\frac{7}{8} - \frac{3}{8} =$ _____

e $4 \times 12 =$ _____

h $3^2 + 4^2 =$ _____

c $2.75 + 4.5 =$ _____

f $84 \div 7 =$ _____

i Round 5.678 to the hundredths.

j What is $\frac{2}{3}$ of 27? _____

2 WORD PROBLEMS: *Read carefully and solve.*

- a A factory packs 48 robots in each crate. They ship 25 crates on Monday and 17 crates on Tuesday. How many robots did they ship in all?
- b A robot has a program that repeats every 6 seconds. If it starts at 2:15:30, what time will it be at the end of the 5th repeat?
- c The parts department had 1,250 bolts. They used 368 bolts, then received 495 more. How many bolts do they have now?

3 FIND THE PATTERN

- What number comes next?
- a 2, 5, 8, 11, 14, _____
 - b 1, 3, 6, 10, 15, _____
 - c 2, 4, 8, 16, 32, _____
 - d 3, 6, 12, 24, 48, _____



ENGINEER TIP
Break big problems into smaller steps, check your work, and never give up!

MISSION 10 ★

ROBOT CHALLENGE



Final challenge! Plan, solve, and think like a true robot engineer!

1 THE CHALLENGE:

Robot Robo needs to build the strongest robot tower possible. He has these parts:

Bolts
(each holds 2 points)

Gears
(each holds 5 points)

Panels
(each holds 10 points)

Circuits
(each holds 8 points)

Robo has exactly 20 parts to use. What is the highest points total he can build? Show your plan and your answer.

MY PLAN:

MY CALCULATIONS:

MY ANSWER:



2 TRUE or FALSE? *Circle your answer.*

- a $0.75 = \frac{3}{4}$ TRUE FALSE
- b 9% of 200 is 18. TRUE FALSE
- c If a pattern goes up by 4, the next number always goes up by 4. TRUE FALSE
- d 7, 14, 21, 28 is a pattern of adding 7. TRUE FALSE
- e Any fraction with a denominator of 10 can be written as a decimal. TRUE FALSE

3 BONUS BRAIN BOOST!

Fill in the missing numbers.

		100		
		54		
	22			
7	9			

COMMANDER CHECKLIST

- I used number sense! ☐
- I solved complex problems! ☐
- I thought like an engineer! ☐
- I gave my best effort! ☐



ALL MISSIONS COMPLETE!
You've proven you have what it takes to be a
MISSION MASTER ENGINEER!



Amazing work, Cadet!
You planned, you solved,
you built, and you conquered
every challenge! The Robot
Factory is *proud* of you!



THINK SMART. BUILD STRONG. DREAM BIG. YOU'RE A ROBOT ENGINEER!