

- 1) Complete the first location card and check with a teacher to receive your first sticker. Place the sticker on the matching location.
- 2) Draw an action card from your envelope and follow its directions. You must complete this task before receiving your next location card from the teacher.
- 3) Repeat completing location cards from the teacher and then drawing an action card from your envelope.
- 4) The first team to travel around the world (or the team who travels the farthest) wins!

THE AMAZING RACE	THE AMAZING RACE	THE AMAZING RACE
CANADA	IRELAND	ITALY
CLUE #1: EXPAND YOUR MIND, EXPAND THESE POWERS	CLUE #2: WHAT'S MISSING?	CLUE #3: MULTIPLICATION MANIA
EXPAND THE FOLLOWING POWERS: 1) $5^{3} =$ 2) $9^{6} =$ 3) $x^{5} =$ 4) $2^{4} \cdot 5^{2} =$ 5) $a^{3} \cdot b^{2} =$ 6) $(-3)^{4} =$ 7) $-6^{5} =$ 8) $x \cdot y^{6} =$	FILL IN THE BLANKS: 1) $5 = 25$ 2) $3 = 243$ 3) $7 = 823,543$ 4) $10 = 1,000,000,000$ 5) $6 = 1/36$ 6) $4 = 1$	SIMPLIFY THESE PROBLEMS WITH POSITIVE EXPONENTS: 1) $10^3 \cdot 10^4 =$ 2) $10 \cdot 10^5 =$ 3) $10^{-4} \cdot 10^9 =$ 4) $10^4 \cdot 10^{-9} =$ 5) $x^4 \cdot x^7 =$ 6) $x^{12} \cdot x^{-5} =$ 7) $8^3 \cdot 8^{-2} =$ 8) $3^{-8} \cdot 3^{-2} =$

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ETHIOPIA	MADAGASCAR	THAILAND
CLUE #4: DIVISION DIVERSION	CLUE #5: POWERFUL POWERS	CLUE #6: NEGATIVE NATURE
ORDER THE FOLLOWING FROM LEAST (1) TO GREATEST (5): 1) $\frac{10^6}{10^4}$ 2) $\frac{10^{-5}}{10^3}$ 3) $\frac{10^{12}}{10^3}$ 4) $\frac{10^9}{10^3}$ 5) $\frac{10^6}{10^{-5}}$	SIMPLIFY THESE PROBLEMS WITH POSITIVE EXPONENTS: 1) $(10^4)^2 = $ 2) $(10^7)^3 = $ 3) $(10^5)^{-2} = $ 4) $(x^3)^4 = $ 5) $(x^{-4})^{-5} = $ 6) $(2^8)^2 = $ 7) $(-3^2)^3 = $ 8) $-(5^4)^2 = $	MATCH THE NEGATIVE POWER TO ITS SIMPLIFIED POSITIVE POWER. $\frac{1}{10^{12}}$ 1) 10 ⁻⁵ $\frac{1}{10^6}$ 2) 10 ⁻³ $\frac{1}{10^6}$ 3) (10 ⁴) ⁻² $\frac{1}{10^4}$ 4) 10 ⁻³ · 10 ⁻⁹ $\frac{1}{10^5}$ 5) $\frac{10^6}{10^{12}}$ $\frac{1}{10^3}$ 6) 10 ⁰ · 10 ⁻⁴ $\frac{1}{10^8}$

THE AMAZING RACE	THE AMAZING RACE	THE AMAZING RACE
JAPAN	NEW ZEALAND	BRAZIL
CLUE #7: ZERO ZANINESS	CLUE #8: MIXED BAG	CLUE #9: SUMMARY SET-UP
SIMPLIFY THESE POWERS OF ZERO WITH POSITIVE EXPONENTS:	SIMPLIFY THESE POWERS WITH POSITIVE EXPONENTS:	MATCH THE RULE TO THE PROPERTY:
1) $10^{\circ} = $	1) $10^3 \cdot 10^6$	MULTIPLICATION • $x^0 = 1$
2) $10^{\circ} \cdot 10^{\circ} = $ 3) $10^{-3} \cdot 10^{\circ} = $	$\frac{10^{4}}{10^{4}} = \underline{\qquad}$ 2) $(10^{6})^{4} \cdot 10^{-15} = \underline{\qquad}$	POWER $(x^a)^b = x^{a \cdot b}$
4) $(10^5)^0 = $ 5) $(10^0)^2 = $	3) 10 ⁵	DIVISION • $x^{-a} = 1$
6) $(10^5)^2 \cdot 10^0 = $	$10^2 \cdot 10^8$	ZERO x ^a
$7) \frac{10^0}{10^3} = $	4) $(10^8)^3 \cdot (10^6)^2$ $(10^4)^3 = $	NEGATIVE $\bullet \frac{x^a}{x^b} = x^{a-b}$
$\frac{8)}{10^{0}} = \underline{\qquad}$	5) $(10^{0})^{5} \cdot 10^{9} \cdot (10^{1})^{0} = $	• $\mathbf{x}^{a} \cdot \mathbf{x}^{b} = \mathbf{x}^{a+b}$

ROAD BLOCK | ROAD BLOCK | ROAD BLOCK



A ROAD BLOCK IS A TASK ONLY ONE PERSON CAN PERFORM: WHO'S READY TO MULTIPLY?

SOLVE THE FOLLOWING <u>WITHOUT</u> A CALCULATOR:

3 4 5

x 14

A ROAD BLOCK IS A TASK ONLY ONE PERSON CAN PERFORM (A <u>DIFFERENT</u> GROUP MEMBER THAN BEFORE): WHO'S READY TO GRAPH?

GRAPH THE FOLLOWING 3 POINTS ON THE GRID BELOW: (3,-4), (-2,5) and (0,-3)



A ROAD BLOCK IS A TASK ONLY ONE PERSON CAN PERFORM (THE LAST PERSON IN THE GROUP): WHO'S READY TO SIMPLIFY?

SIMPLIFY THE FOLLOWING FRACTIONS:

25/100 = _____

8/40 = _____

15/90 = _____

DETOUR	DETOUR	DETOUR
CRAB OR KANGAROO WALK HOP	SIT OR PUSH UP UP	CHANCE OR DANCE
THE ENTIRE TEAM MUST COMPLETE THE SAME CHOICE.	THE ENTIRE TEAM MUST COMPLETE THE SAME CHOICE.	THE ENTIRE TEAM MUST COMPLETE THE SAME CHOICE.
ONE AT A TIME, EACH MEMBER OF YOUR TEAM MUST GO INTO THE HALLWAY AND DO ONE OF THE FOLLOWING FROM THE CLASSROOM DOOR TO THE POD DOOR AND BACK.	ALL GROUP MEMBERS MUST COMPLETE 20 FULL SIT UPS OR 10 FULL PUSH UPS.	CHANCE - EACH PERSON MUST ROLL THREE DICE UNTIL THEY LAND ON THE SAME NUMBER.
IF THEY STOP OR FALL DOWN, THEY MUST START OVER AT THE CLASSROOM DOOR.		DANCE - EACH PERSON MUST DANCE NON-STOP FOR 1 MINUTE.

