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PHOTOCOPY MASTERS

Mad Maths

for 8 to 10 year olds

Book 2

Stimulating problem solving activities for students aged 8 to 10 years.

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Name:_____

Worksheet 2

When the seeds of the zib zub tree fall on, or are thrown at Hairy Mountain Monster they stick to his hair. Little Mountain Monster likes to see how high he can score by throwing the zib zub seeds at his big brother.

He can't figure out what the highest score could be if he could throw four seeds at Hairy Mountain and land only two seeds on any one number.

The only trouble is getting the seeds off afterwards. They pull out most of Hairy Mountain's hair and people start calling him Bald Mountain.

☞Questions

1. What is the highest score possible with four seeds if only two can land on each number? _____
2. What is the lowest? _____
3. What throws (combination of four throws) could score 16? _____
4. What throws of four shots could score 28? _____
5. What is the highest score that could be made with six seeds? _____
6. What is the lowest score that could be made with six seeds? _____

   What is the difference between highest and lowest? _____

Madness

Make a scoreboard out of paper and play the game using counters instead of seeds.

Name:_____

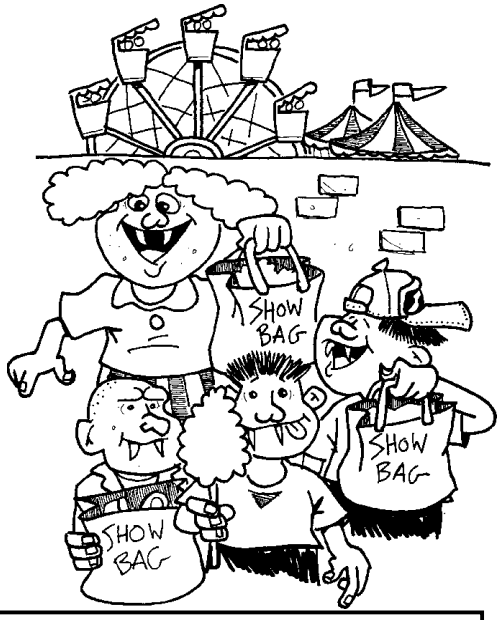
Worksheet 8

Prices

ENTRY		SHOWBAGS	
Family	$15	False Teeth Bag	$ 2
Adult	$ 6	Snail/Worm Bag	$ 2.50
Child	$ 4	Yuk Bag	$ 2

RIDES

Scare Ya Ride	$ 3
Ferrets Wheel	$ 3.50
Smashem Cars	$ 3



Janey Painy Monster went to the Mad Royal Show with her three little brothers.

They had their own money for rides and showbags and Janey bought them all scareyfloss and a hotdog for lunch. The dog ran away though.

☞Questions

1. Is it cheaper for Janey to take herself and her brothers in as a family or separately? _____
2. How much would lunch cost for one child if scareyfloss cost $1.50 and a hotdog cost $1.50? _____

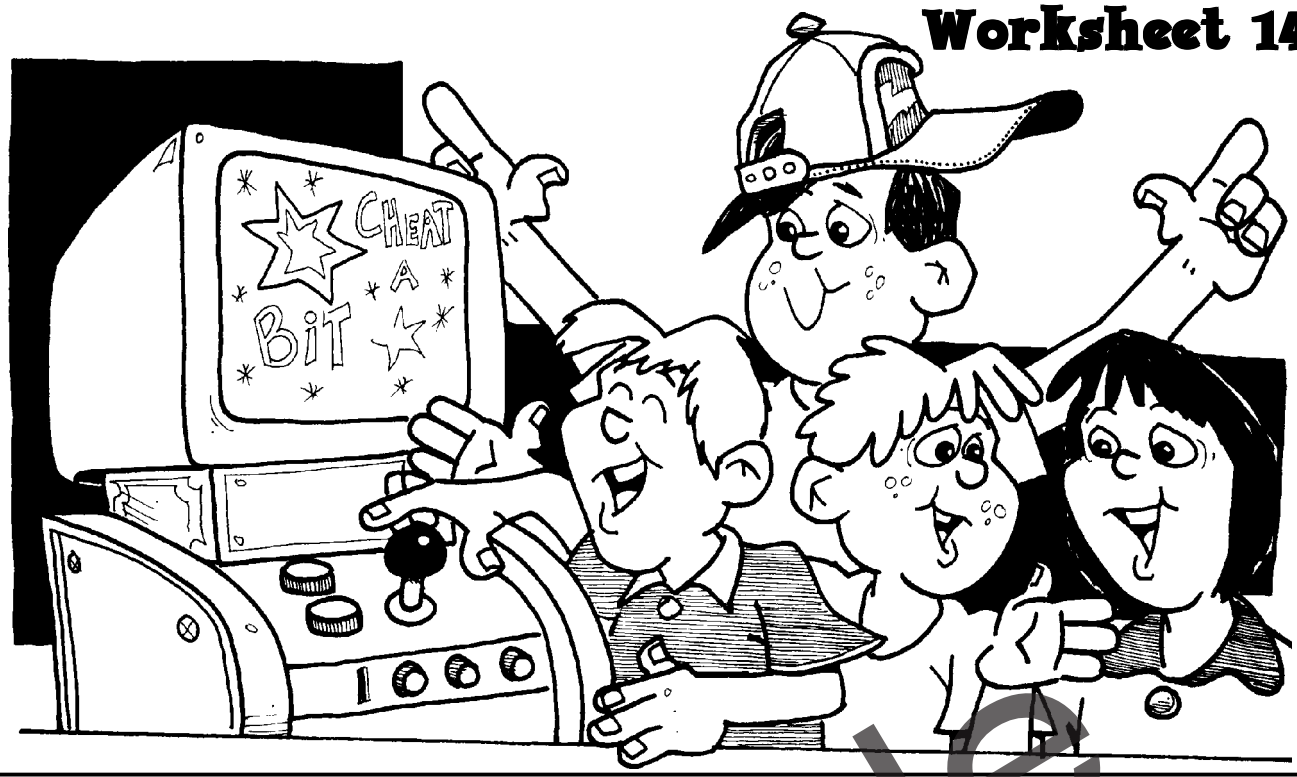
   How much for 3 children and Janey? _____
3. What is the cheapest ride? _____
4. What is the dearest showbag? _____
5. What is the difference between the dearest ride and the cheapest showbag? _____
6. If you went on every ride and bought every showbag how much would you spend? _____

Madness

Design your own favourite ride poster or design your favourite showbag. Give it a name and fill it with things you like.

Name: _____

Worksheet 14



Gurgle, Guffaw, Snigger and Smirk like to play each other on the computer game 'Cheat-A-Bit'.

Each Friday they have a competition where they all play one game against each other. They score 2 for a win and one for a loss.

Last Friday Gurgle beat everyone and everyone else came equal.

☞Questions

1. How many people are playing 'Cheat-A-Bit'? _____
2. How many games would each person play each Friday? _____
3. How many games would be played in a round? _____
4. If it cost 40 cents a game how much would each person need to play?

   _____
5. How many points would Gurgle have if he won every game? _____
6. What were the scores of the other three who tied last week? _____
7. If Gurgle scored a total of 12,000 points and the other three scored only half of this between them then how much would they have scored each if they score evenly? _____

Madness

Invent your own computer game. Draw its screen.

Name:_____

Worksheet 16

Pete, Patsy and Polly exchanged cards when they were on holidays.

That means that each one sent each other a card when they were away.

They each bought their cards at the local newsagents before they left.

☞Questions

1. How many cards did each person send? _____
2. How many cards did each one receive? _____
3. How many cards were posted altogether? _____
4. If one of the cards cost 45 cents to send how much did each person spend?_____

   How much was spent altogether? _____
5. If Pete sent two letters to everyone each week for four weeks how many letters would he send? _____

   How much would it cost him? _____
6. What is your postcode? _____

   What is the total of the numbers in your postcode?_____
7. What is the highest house number of your classmates' addresses? _____

Madness

Write a letter to a good friend telling him/her how you're having a wonderful holiday on the moon.

Name: _____

Worksheet 27

Fergus Monster loves Monster Flakes for breakfast.

He likes them so much that he has four equal serves with his flavoured milk every morning. Each serve weighs 35 grams so he goes through a box of breakfast cereal fairly quickly.

Fergus likes to read the silly cereal jokes on his Monster Flakes - like this one:
"What cereal do cats like?" Mice Bubbles!

☞Questions

1. How much does one serve of Monster Flakes weigh? _____
2. How much does Fergus eat at one breakfast? _____
3. If the box of Monster Flakes contains 420 grams, how many days does it take Fergus to eat a box of cereal? _____
4. If each bowl takes 40 ml of flavoured milk, how much milk does Fergus use on breakfast each day? _____

   How much milk would Fergus use in a week? _____
5. If each box of Monster Flakes costs $3, how long would it take Fergus to eat $12 worth of flakes? _____

Madness

Invent your own breakfast cereal.
Name it after yourself and tell some lies about what it could do for you.