

Teacher Information

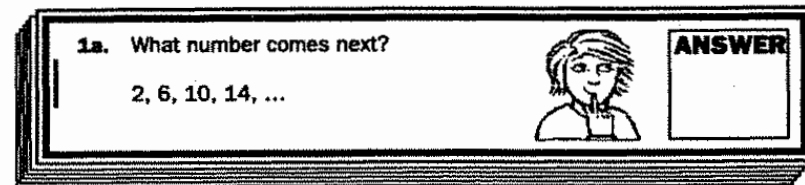
SETTING UP THE COMPETITIONS

This resource gives you and your students the necessary materials to run a math competition with a single classroom or with multiple classrooms taking part. It also enables you to choose school teams for external competitions. As well, the two sets of questions in each book can be used during regular math class as a fun activity.

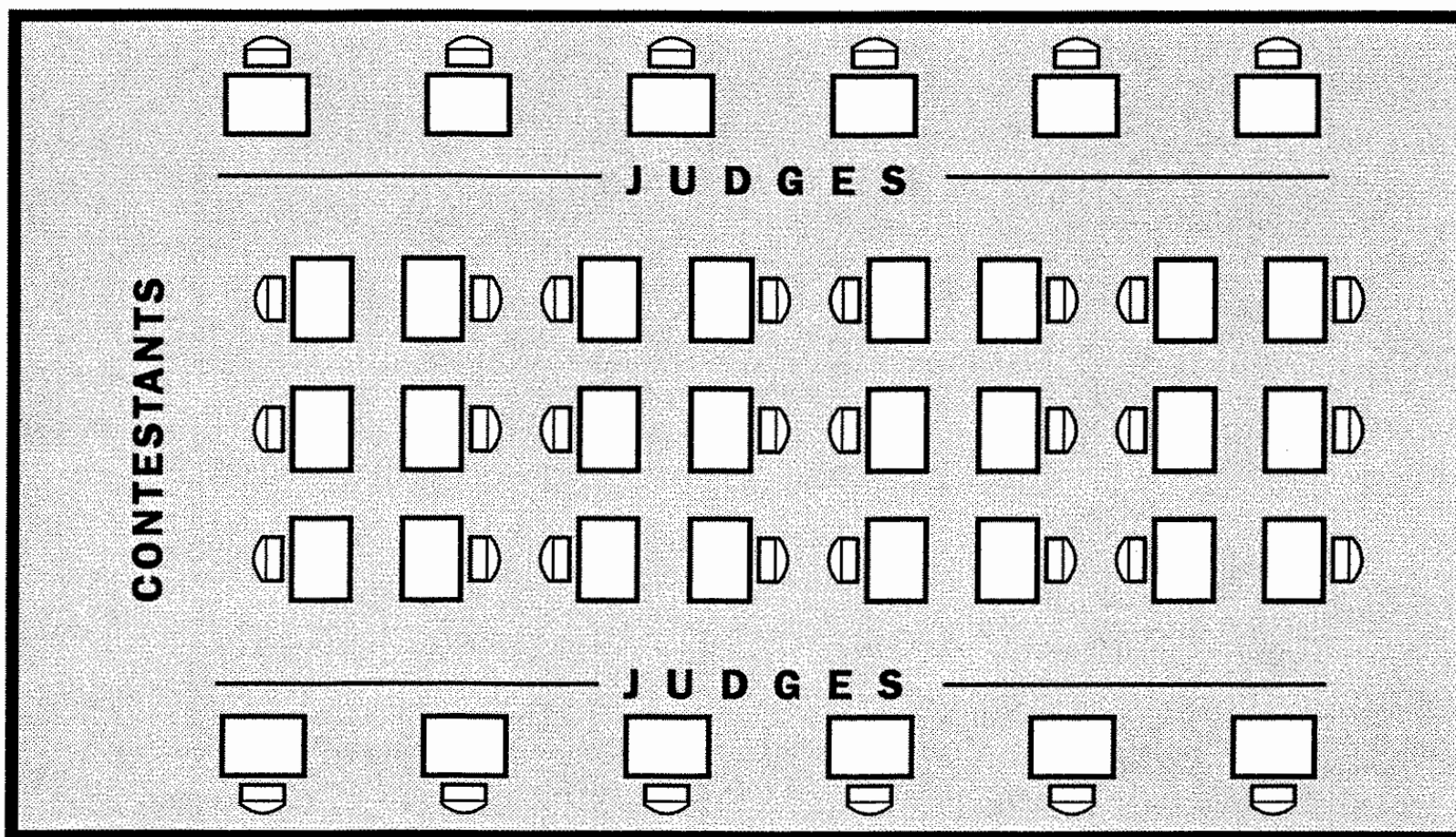
Running a Competition with a Class

Below are possible arrangements for class competitions:

1. Survey your class to see which students would like to be competitors and which would like to be judges. Alternatively, you can designate students into each of the three roles.
2. Photocopy the necessary number of questions and marking sheets. Cut up the question sheets. Collate sets of twenty questions. Staple the twenty-five question strips along the left edge. These are 'question booklets' which will be held by the judges.



3. Allocate one hour of class time for the competition,
 - Set up and Instructions:** 20 minutes
 - Competition:** 30 minutes
 - Check answers and tidy up:** 10 minutes
4. Set up the classroom in a similar way to the format shown below:



Instructions

INSTRUCTIONS FOR COMPETITORS, JUDGES, AND SUPERVISORS

COMPETITORS

1. You have 30 minutes for this competition.
2. Collect your first question strip from the judge that you have been assigned to.
3. When you have written your answer to the first question in the answer box on the strip, run to your judge and give her or him the question strip. Your judge will say either, "Correct" or "Not Correct." If your answer is correct, you will be given your next question strip. If it is not correct, you must go back to your desk, sit down and must make a second attempt at the question. If the answer is still wrong, you can make as many attempts as you like to get the answer right or, you may pass and go to the next question. You must make at least two attempts at each question.
4. Any question that you pass on cannot be returned to later in the competition. Take care not to pass on questions too early in the competition or you could find yourself finishing early and watching other competitors overtaking you in the last few minutes. The supervisors will keep a running total of each competitor's score on blackboards/whiteboards and will count down the time remaining.
5. You must not discuss anything with your judge. If you have any problems, return to your desk, sit down and put up your hand. A supervisor will help you.

JUDGES

1. Set out your question booklets on the desk in front of you. You should label each set so that you know which competitor they belong to.
2. Ensure that your Marking Sheet is covered at all times when you are dealing with competitors.
3. When one of the competitors brings you a question to be marked, you must say, "Correct" or "Not Correct" only.
4. Keep your marking sheet up to date. Mark it with a score of '5' when a question is answered correctly (the answer has to be written down on the competitor's question slip). Write 'P' on your marking sheet if a question is passed by.
5. Tear the next question off a competitor's question booklet only when it is time to give them that question. This will make sure that you don't get the questions mixed up between competitors.
6. Place correctly answered or passed by questions under your chair so that other competitors cannot see the answers.
7. Write running totals for each competitor in the space provided on the answer sheet.

SUPERVISORS

1. As soon as the competitors are seated, write their names on blackboards/whiteboards to enable running totals to be kept for each competitor's score.
2. Have some spare marking sheets and question sheets ready in case of emergencies.

SET A Level 4 : Practice Question

Practice

Mandy used 6 pieces of 75cm long wool to make a plait. This used up $\frac{1}{4}$ of a ball of wool. How many metres of wool was left on the ball?



ANSWER

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ANSWER

SET A Level 4 : Question 3

3a. Mr Sanders fills up his car with gas. He gets a 5% discount for having a Savers Card and pays \$38.00. How much would it have cost him if he did not have a Savers Card?



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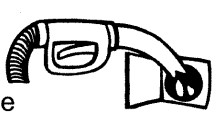
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ANSWER

SET A Level 4 : Question 6

6a. Sam's school is 15 km from home and he bikes at a rate of 25km/hr. His brother David's school is 11km from home and he bikes at a rate of 20km/hr. If they both leave school at the same time, who will get home first and by how many minutes?



ANSWER

6a. Sam's school is 15 km from home and he bikes at a rate of 25km/hr. His brother David's school is 11km from home and he bikes at a rate of 20km/hr. If they both leave school at the same time, who will get home first and by how many minutes?



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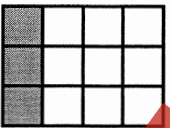
ANSWER


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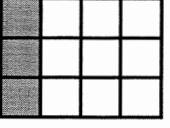
ANSWER

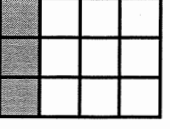
SET B Level 4 : Question 10

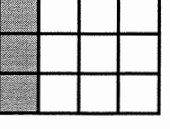
10b. What % of the grid is shaded?  **ANSWER**

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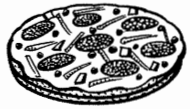
10b. What % of the grid is shaded?  **ANSWER**


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SET B Level 4 : Question 15


15b. Sharon cut a pizza up into 12 pieces. She gave $\frac{1}{6}$ to Fiona, $\frac{1}{12}$ to Debbie and $\frac{1}{4}$ each to Linda and Manu. What % is left for Sharon?  **ANSWER**

15b. Sharon cut a pizza up into 12 pieces. She gave $\frac{1}{6}$ to Fiona, $\frac{1}{12}$ to Debbie and $\frac{1}{4}$ each to Linda and Manu. What % is left for Sharon?  **ANSWER**

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SET B Level 4 : Question 21

21b. $9^8 \div 9^2 = 9^{\square}$
What number does \square stand for?  **ANSWER**

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Level 4 Math Competition

Certificate of Participation

This certifies that

_____ has participated in a Level 4 Math Competition

Let's compete

Signed _____

Date _____

Level 4 Math Competition

Certificate of Participation

This certifies that

_____ has participated in a Level 4 Math Competition and has achieved

Let's compete

Signed _____

Date _____

SET B Level 4 : Question 25

25b. Philip has a penpal called Alan. It costs 48¢/minute for Philip to phone Alan but no more than \$6 for the entire call. After how many minutes does Philip pay just \$6 for his call?



ANSWER

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ANSWER

SET B Level 4 : Marking Sheet

Question. \$17.50	NAME	NAME	NAME
ANSWER			
458, 459, 460			
\$9.00			
90¢			
10:30am Thursday			
7½ or 7.5			
Tortoise (by 1 min)			
8			
10			
6/9, 4/6 and 2/3			
25%			
1:30			
\$400			
3000			
25%			
1hr 24mins or 84mins			
10			
\$40			
50			
\$15 discount - saves \$2			
6			
74			
56			
2, 2, and 6			
2½ (or 12mins 30s)			
SCORES			

ANSWER KEY

