



Queensland
Association of
Mathematics
Teachers

Celebrating 100 Years
1922 2022



Year 5/6 and 7/8



Mathematics Quiz Competitions

Participant and Organiser Information



Year 5/6 and 7/8



Mathematics Quiz Competitions

Participant and Organiser Information

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PARTICIPATING IN THE QUIZ

Getting started

Thank you for entering a Year 5/6 or a 7/8 quiz. We hope you and your students enjoy the experience. The following checklist should help you to get everything organised as smoothly as possible.

Both the Year 5/6 and Year 7/8 QAMT Maths Quizzes will be run over three rounds: - District/Local competition (round 1); Regional Final (round 2); and State finals (round 3)

Schools have a choice to compete in Rounds 1 and 2 either individually at their own schools **OR** in local clusters at identified 'host schools (quiz centres)'.

Quiz dates

- District/Local **Round 1** of the quiz will be held for all schools in Weeks 5 to 7 of Term 3 (EQ 2022 Calendar) – that is **8th – 26th August 2022**.

- Regional **Round 2** (Regional Finals) of the quiz for all schools is in Weeks 8 to 10 of Term 3 (EQ 2022 Calendar) – that is **29th August – 16th September 2022**. (Note: 2nd September is a student free day for EQ schools)*

- The **State Finals** will be held online on **Thursday 27th October 2022**.

Up to twenty teams across Queensland for the year 7/8 quiz, and up to fifteen teams for the year 5/6 quiz, will be identified from the 'Regional' R2 results and will be invited to the 'State Finals' (online in 2022)

Before the Competition

- ✔ Confirm dates of rounds -
 - District/Local (Round 1);
 - Regional (Round 2);
 - State (Round 3)
- ✔ Organise your teams
- ✔ Contact QAMT Office to register your teams and find your closest centre **OR** to confirm your school as a stand-alone school or a host Centre

Attending a Centre (Round 1)

- ✔ Speak to the centre co-ordinator about the number of teams that can be registered - each centre will have a different capacity.
- ✔ Check the starting time for the quiz. Quizzes can be run during or after school - this will vary by centre.
- ✔ Choose your Team
 - Teams consist of 3 students
 - Students can be chosen from years 5/6 or 7/8 but at least one student must be enrolled in year 5 for the year 5/6 quiz or in year 7 for the year 7/8 quiz.

For both the year 5/6 and year 7/8 quizzes, teams going through to Round 2 will be identified using their local scores from R1, or, for stand-alone schools using the scores for the Round from the group of stand-alone schools - these schools will be invited to the 'Regional' Round (R2). R2 may be run in-house, or at accessible locations at a Regional Centre.

The 'Regional Centre' for the second Round will be advertised on the QAMT quiz web pages.



Why enter your students?

Identify students for participation in other maths competitions.

Build the visibility of your enthusiastic maths students within your school.

Create a desire amongst other students to participate in fun and interesting maths activities.

Sustain their interest in maths with wider recognition recognition of their ability at regional or state level.

Challenge and extend your students and their mathematical abilities.

ORGANISING THE QUIZ

In Your School - Stand Alone

- Stand-alone schools can choose to run the quiz in school time, or as an after school event, as best suits their circumstances.
- Schools choosing to run the quiz at their own school for their own students may choose to split the quiz session so that it can be delivered over two Maths teaching sessions on consecutive days.
- Students are permitted non-programmable basic calculators in some sections of the quiz. No other special equipment is required
- If you are running the quiz (at your own school, a data projector/large screen monitor and a laptop/computer with a sound option is the best option to deliver the quiz.

Quiz dates

- District/Local **Round 1** will be held for all schools and centres in the Weeks 5 to 7 of Term 3 (EQ 2022 Calendar) – that is **8th – 26th August 2022.**
- Regional **Round 2 (Regional Finals)** of the quiz for all schools is in Weeks 8 to 10 of Term 3 (EQ 2022 Calendar) – that is **29th August – 16th September 2022.** (Note: 2nd September is a student free day for EQ schools)*
- The **State Finals** will be held online on Thursday 27th October 2022.

For both the year 5/6 and year 7/8 quizzes, teams going through to Round 2 will be identified using their local scores from R1, or, for stand-alone schools using the scores for the Round from the group of stand-alone schools - these schools will be invited to the 'Regional' Round (R2). R2 may be run in-house, or at accessible locations at a Regional Centre.

The 'Regional Centre' for the second Round will be advertised on the QAMT quiz web pages.

Up to twenty teams across Queensland for the year 7/8 quiz, and up to fifteen teams for the year 5/6 quiz, will be identified from the 'Regional' R2 results and will be invited to the 'State Finals' (online in 2022).

Before the Competition

- ✔ Confirm dates of rounds -
 - District/Local (Round 1);
 - Regional (Round 2);
 - State (Round 3)
- ✔ Organise your teams. Stand-alone schools' - schools opting to run Round 1 at their own school and for their own school - are required to register only one team (but they can run the quiz with as many teams as they like at their own school)
- ✔ Contact QAMT Office to register your teams and find your closest centre **OR** to confirm your school as a stand-alone school or a host Centre

When you register, you will be asked:

- the school's postcode,
- name of the town or suburb in which the school is located
- the nearest major town/city (or enter your district/region if not near a major town or city)
- Make sure you register your school/team for the correct quiz - year 5/6 or year 7/8
- Once a team is registered, they are not required to register again for further rounds of the quiz
- Registration and payments are on-line through www.qamt.qld.edu.au - schools not able to process online payments may use the online registration to request an invoice for direct payment

Attending a Centre (Round 1)

- ✔ Speak to the centre co-ordinator about the number of teams that can be registered - each centre will have a different capacity.
- ✔ Check the starting time for the quiz. Quizzes can be run during or after school - this will vary by centre.
- ✔ Choose your Teams
Teams consist of 3 students
Students can be chosen from years 5/6 or 7/8 but at least one student must be enrolled in year 5 for the year 5/6 quiz or in year 7 for the year 7/8 quiz.

ORGANISING THE QUIZ

In Your School - As a Host Centre

- List all the schools with year 5/6 or 7/8s within reasonable travelling distance of your centre - qamt@qamt.qld.edu.au may be able to help with this.
- Contact schools with the suggested invitation in [Appendix 1](#).
- From the replies, confirm numbers of schools attending, decide on numbers of teams attending and set date.

Host schools can choose to run the quiz in school time, or as an after school event, as best suits their circumstances.

- Confirm date, time and venue with attending schools
- Students are permitted non-programmable basic calculators in some sections of the quiz. No other special equipment is required

What you will receive from QAMT

For Round One (R1) of the quiz,

- questions
- electronic resources
- marking sheets and
- participation certificates will be emailed to Host-school Centres to arrive on or before Friday 30th July 2022.

This will allow time for schools to get set up for the actual quiz in the following week.

Schools are expected to preserve the security of the questions until the round of the quiz is completed or at least until 9th August.

Scores for the teams are to be returned to QAMT electronically as soon as possible but no later than Tuesday 9th August.

Preparing for the Quiz

The following should be done before the competition

- Complete and send out a reminder notice (see [Appendix 1](#))
- Ensure you have 'officials' for all the required jobs (job descriptions in [Appendix 3](#))
- Even though the competition is designed to be delivered by PowerPoint and Data-projector, photocopy sufficient copies of the program and questions for yourself, judges, compère(s) and timekeeper(s)
- Photocopy/print out sufficient copies of Session 3 individual question/response sheets for all students involved
- List the sequence of the schools for each session in each round (see [Appendix](#))
- Collect the following equipment:
 - Enough scribble paper for all students
 - 15 sheets of A4 (for Sessions 1 & 2) for each team
 - One felt pen per team
 - Some extra pens or pencils in case students forget to bring their own.
 - Laptops (for displaying the quiz questions and for scorers), data projector, screen, and loud speakers.
 - Depending on the venue a microphone for the compère may be a good idea
 - Print out some hard copy back-ups for the scoring and progressive scores

ORGANISING THE QUIZ

Preparing for the Quiz

- ANY APPARATUS NEEDED FOR THE ESTIMATION SESSION – it is important that you have this collected well before the day of the competition.
- Plan audience seating and seating and desks for the teams (lecture chairs are economical space-wise) and have a look at [Appendix 3](#) for a typical room set-up.
- If necessary make signs which direct people to the actual venue within a school, and plan the placement of these.
- Place a container in suitable position for collecting registration forms that have not already been handed in (these names can be written on Certificates).
- Make sufficient copies of your program schedule ready for the ‘officials’.
- Organise helpers for shifting furniture, ushering of people, collection of forms, handing out papers in Session 3 (judges can usually do this).
- Remind the “owner” of the venue a couple of days before the competition of your booking.
- Contact your officials and ask them to come a little early so you can run through what they have to do, and clarify any problems or queries.

On the day

Before the teams arrive:

- Check the venue is available and clean.
- If necessary, put up signs to direct people to the actual room venue.
- Set up the seating for the audience and the teams (it may be a good idea to enquire of each school how many spectators they anticipate bringing as a guide to your seating numbers).

- Set up Laptops, data projectors, screen, speakers, and microphone if required.
- Put blank registration forms in a highly visible area for those who might still need to complete them.
- Talk to the officials and compère(s); give each a folder with the required material and a statement of their job and where they are to be involved in program. Refer to these folders and explain any queries.
- If two competitions are occurring simultaneously, indicate to the officials which area they are in.
- If there are two concurrent competitions, remind the compère(s) where the meeting point is to bring everyone together at the end of the Quiz.

Starting the Competition

- Invite people to come together in the main area, introduce yourself, and the compère(s).
- Indicate which schools will go to each area (if running concurrent competitions perhaps have a board with this information on it) and an outline of how the afternoon will proceed.
- Ask the teams and audience to take their places and hand over the running of the quiz to the compère.

During the competition

- Stay close at hand to act as final referee/arbitrator if necessary.
- Make the sure the compère has all that is required, and is able to operate the data-show and .ppt.
- If you have time, use the data on the registration forms to write the names of participating students on the QAMT participation certificates so that these can be handed out at the end of the competition.
- If there are two concurrent competitions, monitor the timing near the end so that you can be ready to move people to the meeting area for the closure.

ORGANISING THE QUIZ

During the Quiz

- If you have time, use the data on the registration forms to write the names of participating students on the QAMT participation certificates so that these can be handed out at the end of the competition.
- If there are two concurrent competitions, monitor the timing near the end so that you can be ready to move people to the meeting area for the closure.

The end of the competition

- Redirect people to meeting area point if there are concurrent competitions running.
- Collect results from the scorers, and identify the winners of the round
- Announce scores for each school and the winner and/or finalists for the next round
- Present medallions if only one winner, and certificates for all students who have participated. If the certificates are delayed indicate that they will be mailed out at a later date to each of the participating schools
- Hand out reminder notices for the Round 2, or the District Final, if there is to be one. Indicate that you need participating schools to give you the number of spectators who will attend, so that this can be phoned to the group organising this final.
- Collect all questions and answers from the students and officials (some competitions may be running later in the week and we need to preserve integrity for those). Past papers will be released after the competition for teams to use in preparation for next year.
- Thank all those who came to participate, support, spectate, or just for interest.
- Ask officials to remain behind for a few minutes.

Rounding Off

- Ask officials to hand in all papers and folders, and thank them.
- Collect the papers and all the students' papers, and question pages.
- Email to QAMT (qamt@qamt.qld.edu.au) the list of schools that competed and the scores for the place getters for Round 1 of the Quiz (see section 4.4).

Winning teams with sufficiently high scores in Round 1 that are not in a district which runs a Round 2, or Regional Final, may be invited directly to the State Finals in Brisbane.

- Please let QAMT know if there are any certificates or medallions still needed
- Please send through any registration forms which were handed in at the competition venue (these can be scanned and emailed to QAMT (qamt@qamt.qld.edu.au))
- Let QAMT know if there are any errors in the question paper or answers

What's next?

When is your role as convenor over?

- Generally straight after Round 2 (or after Round 1 if that's it for your district) at your centre, but specifically
- When you have collected up all the papers and questions pages used in your centre
- When you have emailed:
 - A contact name and address and email contact for next year's Co-ordinator
 - A reserve suggestion in case of transfer
 - The number of medallions that may still be needed
 - The score sheets, and names of winning teams
 - The local registration forms or a list of schools (and contact information) who took part at your centre

ORGANISING THE QUIZ

Other Tips

- Try to get someone else to help you with the overall organisation within the centre. This lessens the load, trains someone else in the event that you leave or cannot do it in the future, and involves more people generally. It may also be good training for those people in the event when they leave and wish to be similarly involved in another or new centre.
- You may wish to invite some local dignitaries or principals and use one of them to present the winners of finalists and/or participants with prizes and/or the certificates.
- First year centres where they exist are usually suitable areas for holding the competitions, whether there are 1 or 2 concurrent competitions. Closed concertina doors do not block out the sound from each section entirely, but they insulate sufficiently well so that concurrent competitions not to interfere with each other.
- It is suggested that each official be given a folder containing a program and a list of duties for them. Judges usually assist in the administration of sessions one, two and three.
- You may wish to contact your local media for coverage (please provide any copies of newspaper coverage to the QAMT office).
- Some schools run in-house competitions so that they can pick a competing team for the inter-school competition, or they have used it with older grades in an intra-school competition. This sort of activity makes the year 5/6 and year 7/8 Quiz more durable and attractive to sponsors.

The next round

Round 2 and the Regional Finals

- If you are running a Round 2, or a Regional Final, both will follow the same format as described above. Teams who have registered and paid for Round 1 are not required to register again.
- Remind any schools who have not registered with QAMT to do so online, or by phone to the QAMT office. District convenors are not expected to chase up and process registration fees.
- QAMT will email out questions and answers to the convenors in the week before the Round is scheduled.
- Please contact the QAMT Office (qamt@qamt.qld.edu.au or (07) 3365 6505) in good time to organise medallions and trophies.
- Send to QAMT an email of the Score Sheet for this Round of the Quiz, and the name of the winning team(s). Winning teams with sufficiently high scores in Round 2 may be invited directly to the State Finals.

Regional Finals

Some Districts combine to run Regional Finals instead of the Round 2 competitions. If your district is involved in a Regional Final:

- Don't forget to remind the team(s) from your Centre who are contestants in the Regional Final about the time and place for the competition.
- Send the Score Sheet information for Round 1 at your Centre, the name(s) of the winning school(s), and the names of the students in the teams to your Regional Convenor.
- If there are any people at your centre who wish to act as officials, (parents included), please advise your Regional Co-ordinator.
- Please notify QAMT of the names and scores of the top teams in the Regional Final.
- Winners of the Regional Finals will be invited to compete in the State Finals in Brisbane, and runners up with similar high scores may also be invited.

APPENDIX 1

Invitation to schools

Dear Colleague

In 1983, QAMT launched its highly successful QAMT Year 8 Mathematics Quiz within the Brisbane Metropolitan Area. Now the annual quiz has expanded to include years 5 and 6 and years 7 and 8 and is held regionally throughout Queensland.

The Quiz is an opportunity to engage our enthusiastic maths students and provide an opportunity for them to experience a fun and challenging team activity over 90 minutes.

(Name of your school) is a host centre for the (insert Year 5/6 or Year 7/8) Quiz this year and you and your students are invited to join us on:

Date:
Venue:
Time:

What you need to do:

- **Confirm your participation to me as soon as possible**

Please let me know how many teams you may wish to register so we can determine our venue capacity. If we receive nominations from more than 9 schools we may have to run a second date to accommodate everyone.

- **Choose your teams**

Teams consist of 3 students with at least one being in year 5 for the Year 5/6 Quiz and in Year 7 for the Year 7/8 Quiz.

- **Register your teams on the QAMT website**

Costs: QAMT Member Host Schools is \$11 (\$10 + GST) QAMT Member Non-host Schools is \$55 (\$50 + GST)
Non-member Schools is \$99 (including \$10 admin fee + GST)
This fee will provide your school access to quiz materials for 2 rounds of the competition and a copy of the questions used in the finals. Schools can enter multiple teams without any extra fees.
Any teams competing at a Quiz Centre should read carefully the details provided by the host school for each round of the competition.

Which students will you choose?

It will be a fairly fast moving competition in which teams of 3 compete in a series of mathematics questions. The questions asked depend largely on students being quick thinking, having a general knowledge of mathematics; an ability to concentrate and work individually or in a team; plus skills in calculation, estimation and interpretation.

The questions will NOT heavily depend on mathematical difficulty, highly formal or symbolic ability in mathematics. They are designed however, to reflect the knowledge, skills and understandings that above average Year 5/6 or Year 7/8 students possess. It is not implied that these items should be regarded as a measure of achievement for Year 5/6 or 7/8 students in general.

Round 2 and the State Finals will naturally contain some questions of a slightly greater difficulty than these at first round level.

What will the Quiz cover?

Session 1 : Estimation - 5 questions worth 1 point (Team based)
Session 2: A speed round - Teams complete 12 questions orally within 2 minutes
Session 3: Written Problems - 5 questions completed individually
Session 4 : Short Answers - 3 questions and each team member answers one question
Session 5: History and General Knowledge - 7 questions with 20 seconds to answer each question

What happens if your team wins?

A winning team from our Quiz will progress to Round 2 Regional Finals. The members of the winning team will each receive a medallion supplied by QAMT. All students participating will receive a Certificate of Participation.

Why should your school participate?

- Build the visibility of your enthusiastic maths students within your school.
- Create a desire amongst other students to participate in fun and interesting maths activities.
- Challenge and extend your students and their mathematical abilities.
- Sustain their interest in maths with wider recognition of their ability at regional or state level.
- Identify students for participation in other maths competitions.
- Engage your colleagues and parent body with mathematics.

I look forward to hearing from you and in having your students participate in this year's Quiz. Further information will be available once you nominate your teams.

Yours faithfully

Quiz Organiser
(insert your school name)

APPENDIX 2

Role Descriptions for the Quiz

COMPÈRE

- Introduces and settles teams and reads out questions
- Has a set talk-style to use (see below), although this may be adapted if desired
- Holds up and displays any estimation equipment if required
- Generally determines the pace of the quiz
- Reads out the answers and helps determine team points for each round
- Is assisted by judges, timers, and scorers

JUDGES

- As the questions are asked, ensures that the compère has given the correct answer and that he/she has been fair in any decisions made
- Keeps an eye open for any contact between teams, the crowd, or other teams
- Marks the session three questions
- Assists the compère in Sessions 1, 3, 4, and 5 by handing out the sheets of paper, question sheets, felt pens, and then collecting them after use
- Helps in the estimation section by distributing any equipment to teams when needed
- Watches students during the sessions, especially Session 3, to ensure that no cheating can occur

SCORER

- Works with the compère to ensure that the tally sheet or spreadsheet (laptop required) is filled in correctly
- Keeps an up to date score for each team, to give to the compère at the end of each session and also completes the section of an OHT to keep audience informed.

TIMEKEEPER

- Keeps time for each session and puts up any OHT's required (note: if you are using the official .ppt for the quiz, timers are built into the program)
- Session 1: typically 30 seconds for each question beginning when the compère has finished reading the question
- Session 2: 2 minutes for each team, starting from the end of the first question in each group of 12 – time keepers are required for this session
- Session 3: 15 minutes from when the compère starts the session
- Session 4: typically 20 seconds or each question beginning when the compère has finished reading the question
- Session 5: typically 20 seconds or each question beginning when the compère has finished reading the question
- May help judges mark the Session 3 papers.

APPENDIX 3

Suggested Layout for the Quiz venue

APPENDIX 4

Program Outline for the Quiz

Time Required - Approximately 2 hours (may take longer if there are any disruptions to technology or progression through questions)

OPENING - Welcome, introduction

Session 1. explanations of format and rules.

Session 2. explanations of format and rules.

Session 3. explanations of format and rules.

Session 4. explanations of format and rules.

Session 5. explanations of format and rules.

CLOSING - Announcement of Winners

Please note: All Rounds/Finals will have these 5 sessions.

APPENDIX 5

Choosing team numbers for the sessions

In most cases, schools are happy to accept where they are placed and what order the teams enter for the direct questions (Session 2).

If there is any tension round this allocation, please use the following process.

- (a) Put the names of the schools competing into a hat. Draw out a name tag to determine the order of competition for the school and the seating position
- (b) Complete the table below as the numbers are drawn from the hat:

1		2	
3		4	
5		6	
7		8	
9			

- (c) Use the following sequence to determine (where necessary) the order in which teams attempt Session 2:
8, 2, 5, 6, 4, 7, 3, 1, 9
(if you have enough people to help out a lot of time can be saved if you run teams in parallel for this session)
- (d) If you have less than 9 teams at your centre, complete the table for the teams that are present and discard the unallocated numbers. Use the sequence above without the unallocated numbers.

APPENDIX 6

Sample score sheet templates

An Excel spreadsheet is provided by QAMT

		Session 1: Estimation (5Q @ 1 mark each)					Total
School		Q1	Q2	Q3	Q4	Q5	Session 1
1							
2							
3							
4							
5							
6							
7							
8							
9							

		Session 2: Speed (12Q @ 1 mark each)												Total
School		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Session 2
1														
2														
3														
4														
5														
6														
7														
8														
9														

		Session 3: Written (5Q @ 1 mark each per student)															Total
School		Student A					Student B					Student C					Session 3
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	

		Session 4: Short Answer (3Q @ 2 marks each)									Total
School		Student A: Q1			Student B: Q2			Student C: Q3			Session 4
1											
2											
3											
4											
5											
6											
7											
8											
9											

		Session 5: History & General Knowledge (7Q @ 1 mark each)							Total
School		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Session 5
1									
2									
3									
4									
5									
6									
7									
8									
9									

Final Results:

		Totals from each session					Grand Total	Final Position
School		Session 1	Session 2	Session 3	Session 4	Session 5		
1								
2								
3								
4								
5								
6								
7								
8								
9								

APPENDIX 7

First Round Program and Script - welcome

QAMT – YEAR 5/6 or YEAR 7/8 MATHEMATICS QUIZ ROUND 1

DATE: _____ COMPÈRE NAME: _____

1. Complete the Registration of schools and team members if not already done
2. WELCOME BY THE CENTRE CONVENOR (May include and Acknowledgement of Country)

Ask the teams and audience to take their places and hand over the running of the quiz to the compère.

Introduction of compère(s) to the audience by the Centre Convenor, and directions to venues/rooms if necessary. (Convenor indicates which schools go to which room/venue if there are two concurrent competitions and the group then splits)

3. COMPÈRE(s) take(s) over
INTRODUCTION

Welcome, students, parents and teachers, to this year's QAMT Year 5/6 or 7/8 Mathematics Quiz. In 1983, the inaugural Year 8 quiz included 41 schools from the Brisbane Metropolitan area. Since then, the competition has gone state-wide, with centres in places as far away as Mt. Isa, Atherton and Roma. In some centres with few schools, there will be only one round in the competition. In other centres, there may be possibly two competitions running at the same venue in the first round, and a second round to determine the overall Centre winner. Some of these second round competitions are run as Regional Finals. In Brisbane the winners from the Metro rounds, Regional finalists and invited teams from the one and two round quizzes compete in the State Final to determine an overall competition winner.

The Queensland Association of Mathematics Teachers is the sponsor for this competition, with The University of Queensland sponsoring the Year 7/8 component. In addition to providing the questions, answers and infrastructure for the quiz, QAMT also provide subsidies for teams travelling long distances to the finals.

Now, onto the basic information relating to the competition itself.

4. a. (TO BE READ IF THIS CENTRE ONLY HAS SUFFICIENT SCHOOLS FOR A ONE ROUND COMPETITION)

As you are aware, there is only one round of competition at this centre this year. At the end of the competition the winning team will become the 'Centre Winner'. The scores from this round will be sent to the State Convenor, and teams who score well against other centres may be invited to attend the State Final in Brisbane.

- b. (TO BE READ IF THIS CENTRE HAS ANOTHER ROUND TO GO)

As you are aware there are two simultaneous competitions occurring today. At the end of both, we will re-gather at the meeting area designated by the co-ordinator, the scores will be rank ordered, and those teams with the highest results will compete in Round 2.

5. Now let's make a start on this program. As I call the name of each competing school, would the team members please stand, and I'll ask their captain to introduce them.
6. Thank you, good luck students. May I now introduce the officials:

The judge(s) is(are):
The scorer(s) is(are):
The timekeeper(s) is(are):

7. There will be 5 Sessions in today's competition:

Session 1: Estimation (team)
Session 2: Speed contest (team)
Session 3: Written problems (individual)
Session 4: Short Answers (individual in rotation)
Session 5: History and General Knowledge (team)

8. Scores will be updated to you at the end of each round.
9. And now finally let's start the competition

(the compère now reads the script from the Quiz PowerPoint or printed notes as shown on the following pages)

APPENDIX 7

First Round Program and Script - starting the questions - sessions 1 & 2

QAMT – YEAR 5/6 or YEAR 7/8 MATHEMATICS QUIZ SESSION 1

We will now begin Session 1. This is a team-based effort on Estimation. These are the rules:

There will be 5 questions, each worth 1 point.
I will ask a question and there will be a 30 second interval during which the team members may confer and write the answer on one of the sheets of paper provided.
At the end of the 30 seconds, "TIME" will be called and each team must hold up its answer for the audience to see.
I will then indicate to the scorer which schools are the correct answer.
WORKING OUT ON PAPER IS NOT ALLOWED.

Remember, you have only 30 seconds to write the answer to each question. Please talk as quietly as possible to ensure you do not disadvantage your team.

ARE YOU READY?

1.
2.
3.
4.
5.

That completes Session 1.
The scores at the end of this session are (read out score sheet).

We will now begin Session 2. This is a team-based effort where Speed is of the essence. These are the rules:

Each team will be asked the same set of questions.
Teams will be asked to wait outside until it is their turn.
There are a maximum of 12 questions to be answered orally by the team within two minutes.
A team may pass on any question and this question may be repeated if time permits.
NO WORKING OUT ON PAPER ALLOWED!
The time count starts at the end of the first question.
If the team calls out more than one response the team captain must decide which one is the team answer.
The order of the team will NOT be announced beforehand.
Even if I have not completed a question when TIME is called, the session will finish.

Teams, are there any questions regarding the rules?..... ARE YOU READY?

The first school is All other schools are to wait outside until called.

Here is your set of questions:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.

The second school is
(Repeat this process until all schools have attempted the questions. Note: teams may be run in parallel if there are sufficient 'officials' to supervise)

This completes Session 2.
The scores at the end of this session are (read out score sheet).

APPENDIX 7

First Round Program and Script - session 3 & 4 questions

QAMT – YEAR 5/6 or YEAR 7/8 MATHEMATICS QUIZ SESSION 3

We will now begin Session 3. This is an individual effort on Written Problems. While I am explaining the rules, the judges will be handing out the question sheets and working paper. Competitors please do not turn over the question sheets or start working until asked to do so. These are the rules:

All contestants will be given the same 5 questions, and must work on them individually.

Only the answer on the line next to the original question is considered. Contestants are at liberty to use the working paper given to them, but the answers must be on the official sheet handed to them.

Calculators are permitted in this session.

Each question is worth one point so a team may achieve a maximum of 15 points in this session.

There is a time limit of 15 minutes.

For the benefit of the audience, these questions will also be displayed on the screen.

Strict supervision will take place (anyone caught cheating will forfeit their points).

Teams, are there any questions regarding the rules?..... ARE YOU READY?

Please turn over question sheets and write the name of your school in the space provided, but do not start until instructed (when teams are ready) Your time begins NOW.

Judges display the PowerPoint slide of the questions

Time steward will say "TIME Please stop writing" at end of 15mins.

While the judges and scorer are marking the questions, I'll go through the answers for that session.

ANSWERS

That completes Session 3 of the program.

The scores at the end of this session are (read out score sheet).

QAMT – YEAR 5/6 or YEAR 7/8 MATHEMATICS QUIZ SESSION 4

We will now begin Session 4. This is also an individual effort on Short Answers. These are the rules:

Three questions will be asked one at a time.

For each team, the team member on the compère's left will write down the answer to the first question on the paper provided.

Assistance from other team members is not allowed.

There will be a 20 second interval to write the answer.

At the end of 20 seconds the time keeper will call "Time" and the team captain must hold up their answer for the audience to see.

I will then indicate to the scorer which teams have the correct answer.

Each question in this session is worth 2 points.

These steps will be repeated with the second question being asked of the team member sitting in the middle.

The third question will be asked of the team member sitting on the compère's right.

Each team can score a maximum of 6 points in this session.

Teams, are there any questions regarding the rules?..... ARE YOU READY?

Team member 1 (my left), your question is:

Team member 2 (middle), your question is:

Team member 3 (my right), your question is:

That completes Session 4.

The scores at the end of this session are (read out score sheet).

APPENDIX 7

First Round Program and Script - Session 5

QAMT – YEAR 5/6 or YEAR 7/8 MATHEMATICS QUIZ
SESSION 5

We will now begin Session 5. This is a team effort on History and General Knowledge. These are the rules:

There will be 5 questions, each worth one point

I will ask a question and there will be a 20 second interval during which a team may confer among itself and write the answer on one of the sheets of paper provided.

At the end of that 20 seconds, the timekeeper will call "TIME" and each team must hold up its answer for the audience to see.

I will then indicate to the scorer which schools have the correct answer.

Teams, are there any questions regarding the rules?..... ARE YOU READY?

1.
2.
3.
4.
5.

That now completes the session and the competition.
Please wait while the judges and scorers complete the tally.

APPENDIX 7

First Round Program and Script - Closing the quiz

QAMT – YEAR 5/6 or YEAR 7/8 MATHEMATICS QUIZ
FINISHING THE QUIZ

CLOSING THE QUIZ

WHEN CERTIFICATES ARE READY, READ THIS:

1. Before we announce the final winner, would each team, when asked, please stand. will present them with this certificate for participating in the competition.
2. Presentation of certificates occurs. (Please ask a teacher from the students' school to have the names of the students and the school written in later).
3. CENTRE CO-ORDINATOR NOW TAKES OVER (If there have been two simultaneous competitions, all competitors will have re-gathered in the main venue before this commences).

a. READ THIS FOR A ONE ROUND COMPETITION

And now the final positions are: (lowest to highest – generally only the scores of the top few teams should be read out), and so the Centre winner is Would the winning team please come forward, to be presented with your medallions (if these have arrived)?

b. READ THIS IF THERE HAVE BEEN 2 CONCURRENT COMPETITIONS

As you know, there have been 2 concurrent competitions running, and it has been decided that the topteams will contest the next round. These are: (read out the names of the teams and point scores). The winner from this next round will receive the Centre Shield.

4. Could I ask the audience to join with me in showing our appreciation of the participating teams? (applause).
5. Would all the officials please step to the front?

On behalf of QAMT, I extend my thanks to you for the job you've done this afternoon, and special thanks to the compère(s). Please join with me in this vote of thanks. (applause).

6. QAMT trusts you have enjoyed this afternoon/evening. We hope to have your school participate again next year and would welcome your assistance in advertising this competition to eligible schools who did not participate this year.

7. IF MORE ROUNDS ARE TO BE HELD LATER

Please remember that all of you are most welcome to attend the further round (s) of the competition.

8. Once again, thank you for your attendance. Good afternoon/evening.

APPENDIX 8

Competition Organisation

A. In each competition at State, Regional, District or Centre level, no more than 18 teams may take part.

- (1) For 9 or fewer participant schools there will be one competition, the winner of which becomes the overall winner and recipient of the associated shield for the following year;
- (2) For more than 9 participant schools, the Centre Convenor may choose to divide the competition into two, select schools to participate in either group, and run two concurrent competitions. The results will be rank ordered from BOTH competitions, and the teams with the highest score will proceed to the second round, to decide the overall centre winner.

The number of competing schools to be placed in any consequent Second Round is determined as follows

Teams competing	10	11	12	13	14	15	16	17	18
Teams going second round	5	5	6	6	6	7	7	8/9	8/9

B. State Final

- (1) A final round competition to determine the State Champions will be held involving Centre Winners for S.E. Qld, Wide Bay North, Wide Bay South, North Queensland, and other invited Regional/Centre Winners
 - (2) The competition structure in each centre will be as for provincial and country areas, with an extra round, where each centre winner competes for an overall region winner.
- C. In the event that more than 18 schools apply for participation in any centre, a ballot will be held to select 18 schools to compete. Another option is that some schools could join a neighbouring centre if possible.

GENERAL RULES AND INFORMATION

- The Convenors reserve the right to vary the format as they see fit before, and during the competition.
- An interval may be inserted at an appropriate time during the contest (probably parallel with session 2).
- Individuals need to supply their own pens and calculators. Other materials will be provided.
- Scoring will be as indicated on the program except where the competition referee (generally the Centre Convenor) decides on variations to it. Judges and Scorers will attempt to display a progressive total for each school during the competition.
- There will be two judges, whose decisions on any matter, supported by the compère and if necessary the convenor, will be final.
- The emphasis of the contest will be on the enjoyment of mathematics. Please remind contestants that, although certificates and medallions may be presented to them at various levels, participation is the important thing.
- In all competitions, actual questioning will commence no later than the time indicated by the Centre Convenor.

APPENDIX 8

Round 2 - Regional Final script

1. Complete Local Registration of schools and team members if not already done.
2. The Centre Convenor WELCOMES the audience, competitors, and officials, and introduces the compère.
3. COMPÈRE takes over.
INTRODUCTION.

Once again students, parents, teachers, it is pleasing to see such interest by everyone here in this competition. We have with us this afternoon/tonight those teams that qualified for the Second Round (or Regional Final) of the competition. So once again, please join with me in congratulating them for their previous success (Applause). Also remember that the winners tonight will become the Overall Centre Winners (or Regional Winners). The winners this afternoon/tonight will be invited to attend the State Final in Brisbane next month.

4. Now, let's start. As I call the schools' names, would each of the teams stand and introduce themselves please.
5. Thank you, and good luck to all teams. May I now introduce the

Judges:
Timer:
Scorer:

6. The Competition will be run as for the preceding round, so the rules and Session are the same. Teams will be reminded of the rules at the beginning of each Session.

(see previous Round 1 pages for instructions of each round and for scoring format. Use the same script until the end of Session 5)

7. That completes the final Session and the competition. Would all the teams please stand. On behalf of QAMT, please accept our appreciation for participating in the competition (applause). I'll now hand over to the Centre Co-ordinator who will announce the winner.

8. CENTRE CO-ORDINATOR TAKES OVER

Before I announce the winner, could I ask everyone to join with me in thanking the officials, and in particular, the compère, for doing a marvellous job (Applause).

Here are the positions (from the lowest to the highest)
So the winner for this year is
Please accept our congratulations (Applause).

Winners are presented with any medallions/trophies if available.

9. Announcement by Co-ordinator:

(i) **for Regional Finals**

(School)..... will be invited to go on to contest the State Final, which is to be held in Brisbane (venue) on (date and time)

(ii) **for Round 2 Competitions**

The score for (School)..... will be passed on to QAMT and if it is sufficiently competitive they will be invited to the State Final, which is to be held in Brisbane (venue) on (date and time)

10. That completes this round of the QAMT Year 8 Mathematics Quiz for 2022. Once again, our appreciation to all those who have attended and competed. We will be looking forward to your support again next year.

APPENDIX 9

Examples of questions in different sessions

SESSION 1: Estimation (written answers on one sheet of paper)

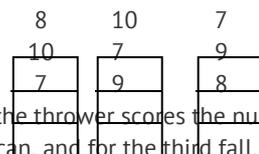
1. How many coke cans like this (provided) could I fill from this (provided) full bucket?
2. How many people in this room?
3. How much does this box of paper clips (provided and felt) weigh?
4. Estimate in cm^2 , the area of this manila folder (provided).

SESSION 2: Team questions (oral)

1. Simplify $56:7$
2. Express 59 in Roman Numerals
3. Express 0.375 as a vulgar fraction
4. $5 \times 9 + 11$
5. $1000 - 0.2$
6. How many metres in 4 kilometres?
7. How many 5c coins in \$5.00?
8. Yes or no: 69 is a prime number?
9. What is one-seventh of 7021?
10. The side of an equilateral triangle is 19cm. What is the perimeter?
11. How many one-twelfths in $\frac{3}{4}$?
12. You spend \$8.20. How much change from \$10?
13. How many triangular faces on a square based pyramid?
14. How many ml in 3 litres?
15. True or false? One thousand 1000s in 1 million.
16. A rectangle has dimensions of 8 cm and 22 cm. What is its area?
17. Yes or no? 9 divides evenly into 7128.
18. What is y if $3y + 9 \times 5$?
19. How many minutes from noon till 6.15 pm.

SESSION 3: Problem Solving (Individual team member response)

1. An article is offered for sale at \$60. I buy it after obtaining a discount of $16\frac{2}{3}\%$. I then resell it for a profit of 20% of what I paid for it. What price did I sell the article for?
2. A string of 5c pieces is placed with the coins touching one another in a straight line. If the length of the line of 5c pieces is 1 metre, give a reasonable estimation of the value of these coins.
3. A stall at the Exhibition displays nine cans, each bearing a number and stacked as below. A competitor is allowed 3 shots, and each shot must dislodge just one can; if a shot topples more than one can it doesn't count.



For the first can to fall, the thrower scores the number shown on it. For the second fall, the thrower is credited with twice the number on the toppled can, and for the third fall, he scores three times the number.

To win a prize the total score for all three shots must come to exactly fifty, no more, or less. Which three cans should a competitor aim for, and in what order should they be toppled?

SESSION 4: Individual oral questions

1. What is the area of a semicircle the diameter of which is 14cm?
2. What is the remainder when 1234 is divided by 15?
3. A person buys 7 books at \$1.98 each and 2 pens at \$4.99 each. How much change from \$20.00.
4. How many hours of daylight if the sun rises at 6.15 am and sets at 5.20 pm.
5. Divide 30 by one half and add 10.

SESSION 5: History & General Knowledge

1. What name is given to an eight-sided figure?
2. What is the name of the mathematician who stated a mathematical formula associated with energy and mass?
3. Euclid is associated with what area of mathematics?
4. What does "per annum" mean?

NOTE: In the event of a tie, tiebreaker questions will be used to determine the overall winner in a round. Schools will not be allowed to retain the answer sheets, nor obtain the questions used in the actual program.