# Preparation Tasks Preparation Kit 2025



- Preparation Task #1
   Dartboard Challenges
- Preparation Task #2 Dartboard Challenges

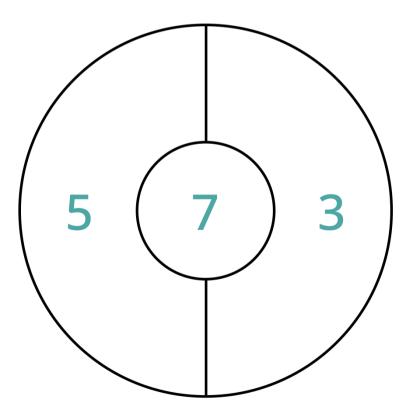
Slides 2 - 6 Activity Sheet p.12 Preparation Kit

Slides 7 - 9 Activity Sheets p.13 & 14 Preparation Kit



Rebekah and Sung are working together to solve a problem.

In this problem, 3 darts will land somewhere on the dartboard and earn points.

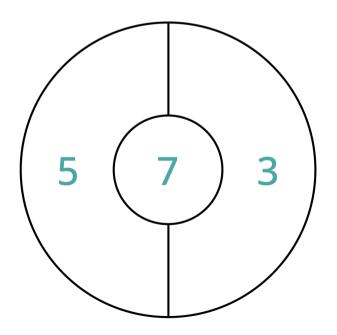




Their teacher wrote some possible scores up on the whiteboard:

# 17 11 23 9 14 19

Right away, Sung said, 'There's **no way** someone could score **14**.'





It's time to:

- Think
- Explain
- Find
- Prove
- List

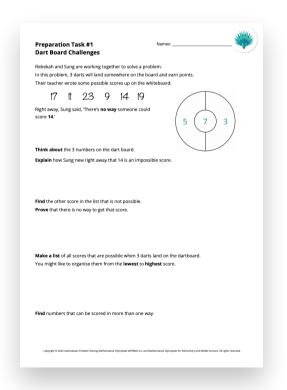


It's time to:

- Think
- Explain
- Find
- Prove
- List

Work with a partner to complete the tasks on your activity sheet.

**Get ready** for a class discussion where we will share and listen to ideas.



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Who can **explain** how Sung knew right away that 14 is an impossible score?

Who **found** the other score in the list that is impossible to get?

Who can **prove** that this score is not possible?

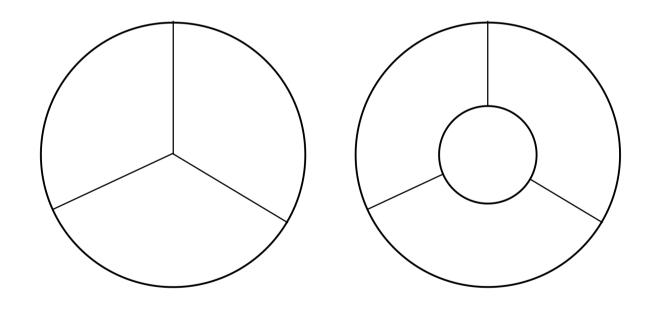
Who can **list** all possible scores?

Who can **identify** scores that you can get in more than one way?



It's time to:

• Design

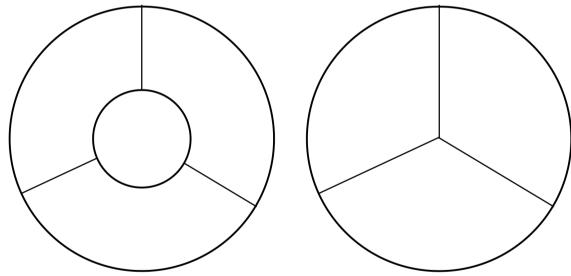




It's time to:

Design

Work with a partner to design dartboards where it is possible to score **9**, **14** and **21** with **3 darts.** 

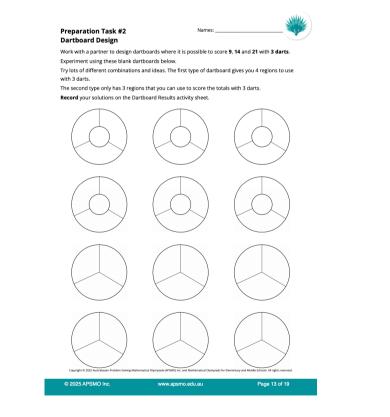


The first dartboard gives you 4 regions for the 3 darts to land.

The second gives you only 3 regions for the 3 darts to land.



There is a **Design** page where you can try lots of different combinations and ideas.



There is a **Results** page where you can show the different dartboard that you have designed.

