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Subject Code 6091

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Also available

ANSWER BOOK (Separate booklet)

Subject Code 6091

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Paper 1 *answers with explanations*

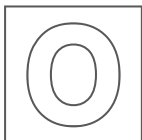
Paper 2 *answers with workings where applicable*

The answers serve as a useful reference for self-study purposes.*

Thought process

This feature provides guidance to each question so as to assist students through their thought processes for effective learning and revision.

* The answers to the questions compiled in this publication are given by the publisher, Singapore Asia Publishers Pte Ltd. Singapore Examinations and Assessment Board bears no responsibility for these answers. Any queries or comments on the answers should be forwarded to the publisher directly.



PHYSICS

6091/01

Paper 1 Multiple Choice

October/November 2018

1 hour

Additional Materials: Multiple Choice Answer Sheet

READ THESE INSTRUCTIONS FIRST

Write in soft pencil.

Do not use staples, paper clips, glue or correction fluid.

Write your name, Centre number and index number on the Answer Sheet in the spaces provided unless this has been done for you.

DO NOT WRITE IN ANY BARCODES.

There are **forty** questions on this paper. Answer **all** questions. For each question there are four possible answers **A, B, C** and **D**.

Choose the **one** you consider correct and record your choice in **soft pencil** on the separate Answer Sheet.

Read the instructions on the Answer Sheet very carefully.

Each correct answer will score one mark. A mark will not be deducted for a wrong answer.

Any rough working should be done in this booklet.

The use of an approved scientific calculator is expected, where appropriate.

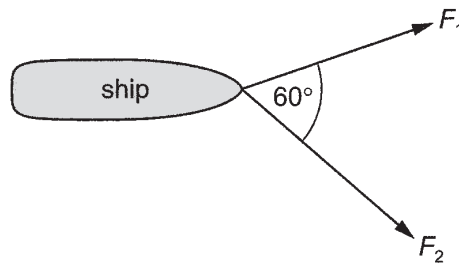
- 1 A pipe has an approximate length of 60 cm and an approximate internal diameter of 3 cm.

Which instruments are the most suitable for measuring accurately the internal diameter and the length?

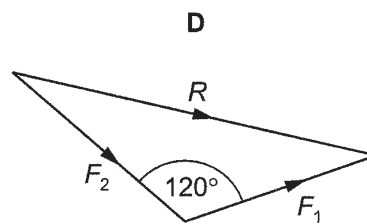
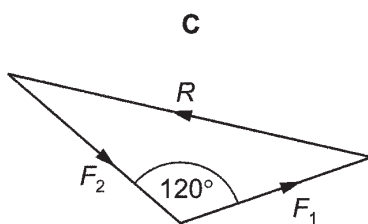
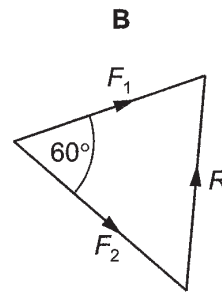
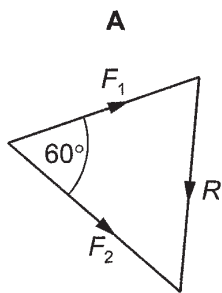
- A calipers and micrometer
- B calipers and rule
- C rule and micrometer
- D rule and tape

- 2 A ship is pulled by two boats.

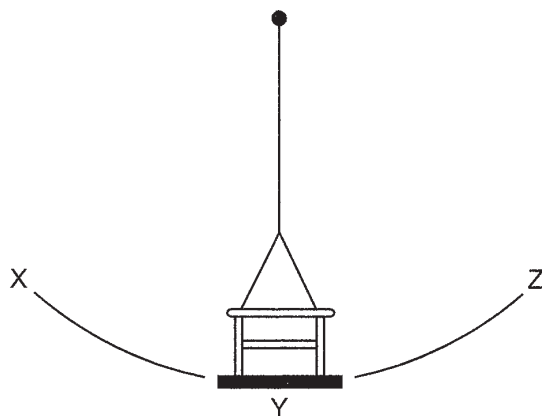
The boats exert forces F_1 and F_2 on the ship, as shown.



Which vector diagram shows the resultant force R acting on the ship?



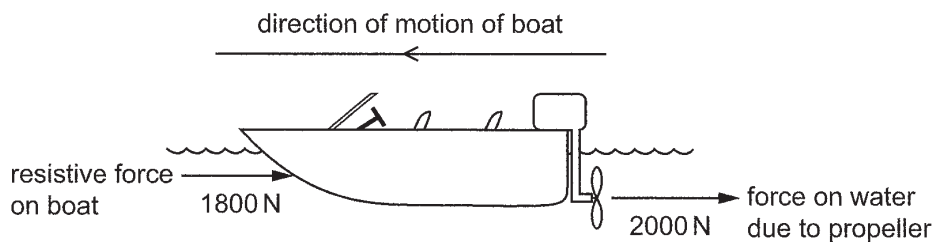
- 3 The diagram shows a child's swing.



The swing is released from point X.

Which movement takes one period of the oscillation?

- A from X to Y
 - B from X to Z
 - C from X to Z and back to X
 - D from X to Z and back to Y
- 4 The propeller on a boat pushes water backwards with a force of 2000 N. The boat moves through the water against a total resistive force of 1800 N.



What is the forward force **on the propeller** due to the water?

- A 200 N
- B 1800 N
- C 2000 N
- D 3800 N