



Year 7 Science 2015

Multiple Choice Answer Sheet

Physics Test 1 Name: Solutions. Year:

Multiple Choice – 10 questions.

Circle your choice. If you change your mind, scrub your choice out and circle the one you want. If it is messy, clearly write your choice next to question.

- | | | | | |
|-----|----------|----------|----------|----------|
| 1. | A | B | C | <u>D</u> |
| 2. | <u>A</u> | B | C | D |
| 3. | <u>A</u> | B | C | D |
| 4. | <u>A</u> | B | C | D |
| 5. | A | B | <u>C</u> | D |
| 6. | A | <u>B</u> | C | D |
| 7. | A | B | C | <u>D</u> |
| 8. | A | <u>B</u> | C | D |
| 9. | A | B | <u>C</u> | D |
| 10. | A | <u>B</u> | C | D |

Written Section:

Write your answers for the written section below. Ask your teacher if you need more paper.

1) a) N - (1)
b) C - (1) (4) total
c) N - (1)
d) C - (1)

2) a) 4 N (1)
b) $3.75 \text{ N} \pm 0.05 \text{ N}$ - (1) (4) total
c) 2 N - (1)
d) $12.5 \text{ N} \pm 0.1 \text{ N}$ - (1)

3) They still use the same amount of energy, but allow it to be done over either a different distance or force - ①

4) a) wheel/axle or lever - ①

b) inclined plane - ①

c) lever - ①

④ total

d) inclined plane (cutting wood)
or
lever - (handle action) - ①

5) a) Increase the lever arm (1st class) = preferred.
or
Shorten the load distance - ①

b) Lift the effort arm more distance - ①

② total