SMART EXAM RESOURCES 9702 PHYSICS TOPIC QUESTIONS

TOPIC: PHYSICAL QUANTITIES AND UNITS

SUB-TOPIC: ERRORS AND UNCERTAINITIES SUB-SUB-TOPIC: ADVANTAGES OF SYSTEMATIC AND RANDOM OF ERRORS

The volume of fuel in the tank of a car is monitored using a meter as illustrated in Fig. 1.1.

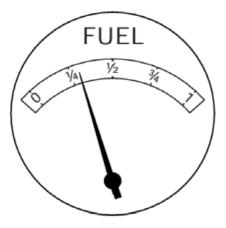


Fig. 1.1

There is a systematic error in the meter.

Suggest why, f	or this meter,	it is an advan	itage to have t	his systematic	error.
					[1]

Mark Scheme:

	(meter sl	hows	zero f	uel whe	n there i	is some	left in the	tank so	o)		
ć	acts as a	i 'rese	erve'							B1	[1]