SMART EXAM RESOURCES
CAMBRIDGE LOWER SECONDARY MATHS
STAGE 8
TOPIC: INDICES
SET-1

1 Write a number in each box to make each statement correct.

$8^0 = \square$

$8^{15} \div 8^5 = 8^{\square}$

[2]

MARK SCHEME

	0.7	1		Accept 70% **or** $\frac{7}{10}$

2 Find the value of x when $36 \times 56 = 2^x \times 3^2 \times 7$

$x =$ ..... [2]

MARK SCHEME

	$(x =) 5$	2	Award 1 mark for $36 = 2^2 \times 3^2$ or $56 = 2^3 \times 7$ **or** for $\frac{36 \times 56}{3^2 \times 7}$ or equivalent or better **or** for answer 2^5	e.g. $\frac{2016}{63}$ **or** $\frac{4 \times 8}{1 \times 1}$ **or** 32

3 Complete each of these calculations with the correct whole number.

$13^0 =$ .....

$(2^3)^2 =$ .....

$11^{15} \div 11^{13} =$ .....

[3]

Mark Scheme:

	1 64 121	3	Award 1 mark for each correct number **or** if 0 scored, for 2^6 **and** 11^2 seen.	

4 Put a ring around the expression that is equivalent to $m \times m \times m \times m \times m$

$5m$ m^5 $\frac{m}{5}$ 5^m

[1]

MARK SCHEME

$5m$ m^5 $\frac{m}{5}$ 5^m

5 Write **integers** in the boxes to make each statement correct.

$7^0 =$ ☐

$7^{20} \div 7^{18} =$ ☐

[2]

MARK SCHEME

	1 **and** 49	2	Award 1 mark for each correct answer.	Do **not** accept 7^2