



SINGLE ITEM / ONE OFF / PROTOTYPE

TO ANSWER ALL THE QUESTIONS, YOU WILL NEED TO DOWNLOAD THE 'SCALES OF PRODUCTION APP', FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

LINK

https://www.technologystudent.com/mobapps/SCALES_OF_PRODUCTION_UPDATE1.pdf

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**ARE YOU READY?
USE THE MOBILE App!!**

1 BRIEFLY, WHAT IS SINGLE ITEM / ONE OFF / PROTOTYPE PRODUCTION?

2 WHAT ARE THE CHARACTERISTICS OF SINGLE ITEM / ONE OFF / PROTOTYPE PRODUCTION?

3 SELECT ONE PRODUCT MANUFACTURED THROUGH THE 'SINGLE ITEM' PRODUCTION SYSTEM. LABEL / NAME THE PRODUCT. PASTE AN IMAGE OF THE PRODUCT BELOW OR SKETCH THE PRODUCT.

4 DESCRIBE THE PRODUCT IN Q3, AND EXPLAIN WHY THIS SYSTEM OF PRODUCTION WAS USED.

5 LIST FOUR MORE PRODUCTS MANUFACTURED THROUGH THIS PRODUCTION SYSTEM

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BATCH PRODUCTION

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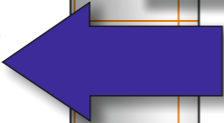
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1 BRIEFLY, WHAT IS BATCH PRODUCTION?

2 WHAT ARE THE CHARACTERISTICS OF BATCH PRODUCTION?

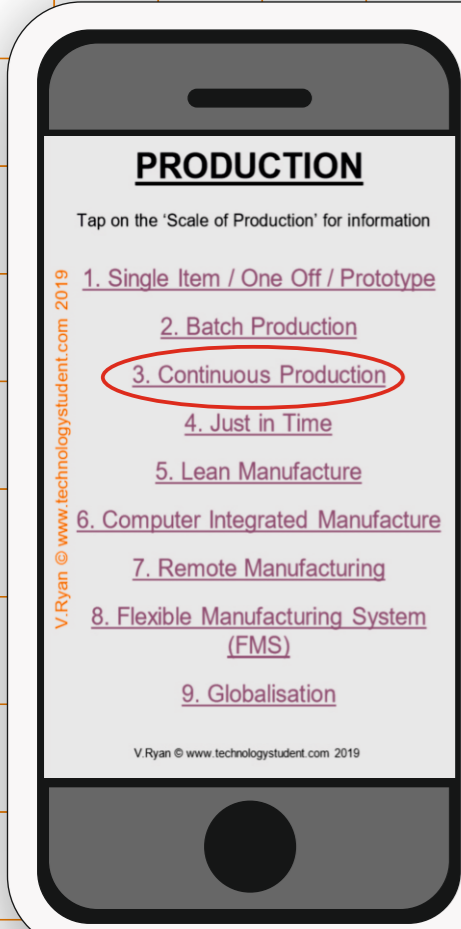
3 SELECT ONE PRODUCT MANUFACTURED THROUGH THE 'BATCH' PRODUCTION SYSTEM. LABEL / NAME THE PRODUCT. PASTE AN IMAGE OF THE PRODUCT BELOW OR SKETCH THE PRODUCT.

4 DESCRIBE THE PRODUCT IN Q3, AND EXPLAIN WHY THIS SYSTEM OF PRODUCTION WAS USED.



5 LIST FOUR MORE PRODUCTS MANUFACTURED THROUGH THIS PRODUCTION SYSTEM

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CONTINUOUS PRODUCTION

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1

BRIEFLY, WHAT IS CONTINUOUS PRODUCTION?

2

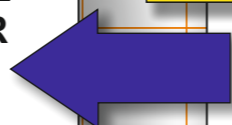
WHAT ARE THE CHARACTERISTICS OF CONTINUOUS PRODUCTION?

3

SELECT ONE PRODUCT MANUFACTURED THROUGH THE 'CONTINUOUS' PRODUCTION' SYSTEM. LABEL / NAME THE PRODUCT. PASTE AN IMAGE OF THE PRODUCT BELOW OR SKETCH THE PRODUCT.

4

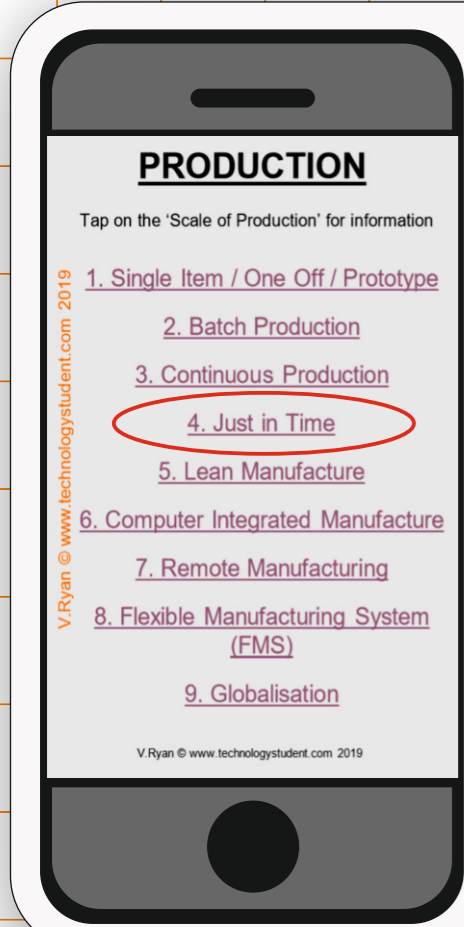
DESCRIBE THE PRODUCT IN Q3, AND EXPLAIN WHY THIS SYSTEM OF PRODUCTION WAS USED.



5

LIST FOUR MORE PRODUCTS MANUFACTURED THROUGH THIS PRODUCTION SYSTEM

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JUST IN TIME (JIT)

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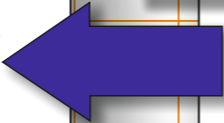
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**ARE YOU READY?
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1 BRIEFLY, WHAT IS 'JUST IN TIME' PRODUCTION?

2 WHAT ARE THE BASIC STAGES OF THE J.I.T. SYSTEM OF PRODUCTION?

3 SELECT ONE PRODUCT MANUFACTURED THROUGH THE 'JUST IN TIME' SYSTEM. LABEL / NAME THE PRODUCT. PASTE AN IMAGE OF THE PRODUCT BELOW OR SKETCH THE PRODUCT.



4 DESCRIBE THE PRODUCT IN Q3, AND EXPLAIN WHY THIS SYSTEM OF PRODUCTION WAS USED.

5 LIST FOUR MORE COMPANIES MANUFACTURING THROUGH THIS PRODUCTION SYSTEM

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LEAN MANUFACTURING

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1

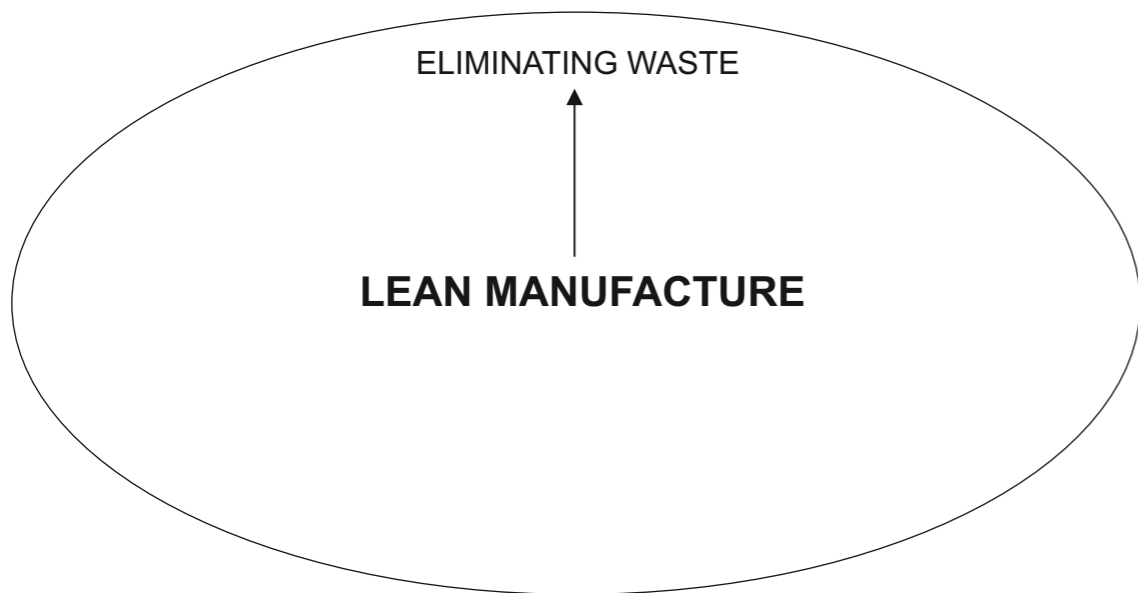
BRIEFLY, WHAT IS THE 'LEAN MANUFACTURING' SYSTEM?

2

WHAT ARE THE DIFFERENCES BETWEEN 'JUST IN TIME' AND 'LEAN MANUFACTURING' ?

3

COMPLETE THE DIAGRAM BELOW, BY ADDING THE KEY FEATURES OF THE 'LEAN MANUFACTURING' SYSTEM



4

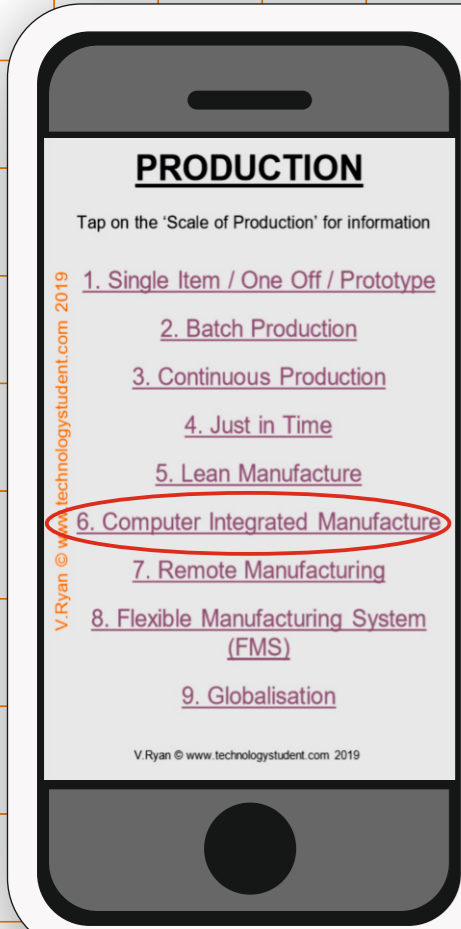
DESCRIBE THE SIMPLIFIED STRUCTURE OF A COMPANY USING LEAN MANUFACTURING.



5

LIST FIVE COMPANIES MANUFACTURING THROUGH THIS PRODUCTION SYSTEM

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COMPUTER INTEGRATED MANUFACTURING (CIM)

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1

BRIEFLY, WHAT IS 'COMPUTER INTEGRATED MANUFACTURING' ?

2

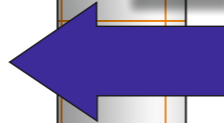
WHEN A FACTORY OPERATES A 'CIM' SYSTEM, HOW DO YOU THINK IT AFFECTS THE SIZE AND NATURE OF THE WORKFORCE?

3

SKETCH THE FLOOR LAYOUT OF A SIMPLE FACTORY, OPERATING 'COMPUTER INTEGRATED MANUFACTURING'

4

DESCRIBE HOW THE FACTORY LAYOUT YOU SKETCHED IN Q3, OPERATES.



5

NAME A PRODUCT THAT COULD BE MANUFACTURED THROUGH 'CIM'. DESCRIBE ITS MANUFACTURE.

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REMOTE MANUFACTURING

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1 BRIEFLY, WHAT IS 'REMOTE MANUFACTURING' ?

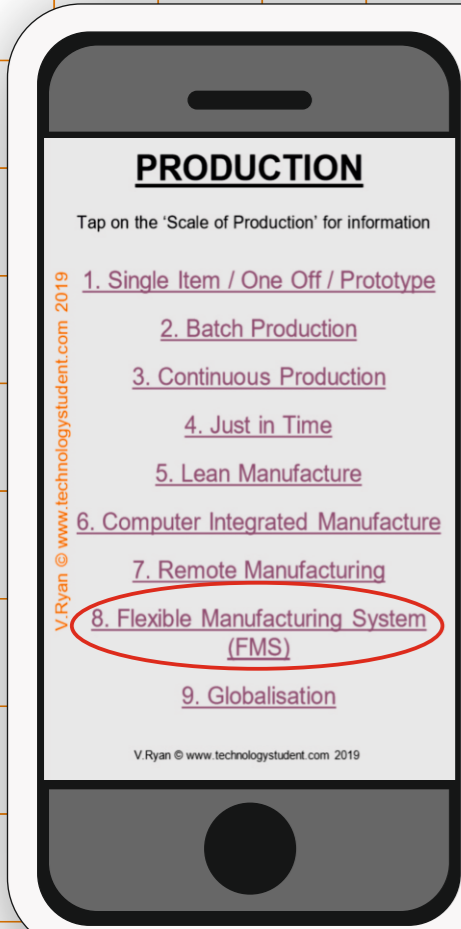
2 DESCRIBE AN EXAMPLE OF REMOTE MANUFACTURING.
(Do not select cars, as this is in later questions)

3 HOW HAS THE CAR MANUFACTURING INDUSTRY, TAKEN ADVANTAGE OF REMOTE MANUFACTURING?

4 IN TERMS OF CAR MANUFACTURING - COMPLETE THE DIAGRAM BELOW, ADDING REFERENCES, TO WHERE THE VARIOUS PARTS MAY BE MANUFACTURED.

5 WHAT ARE THE DISADVANTAGES OF REMOTE MANUFACTURING.

HELPFUL LINK: https://www.technologystudent.com/mobapps/SCALES_OF_PRODUCTION_UPDATE1.pdf



FLEXIBLE MANUFACTURING SYSTEM (FMS)

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1

BRIEFLY, WHAT IS ' FLEXIBLE MANUFACTURING' ?

2

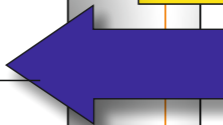
WHAT IS MACHINE FLEXIBILITY?
(Include an example of a product)

3

WHAT IS ROUTING FLEXIBILITY?

4

IN THE SPACE BELOW, DRAW A DIAGRAM THAT REPRESENTS ROUTING FLEXIBILITY.
(E.G. Music CD Manufacture)



5

USING THE INTERNET AS A RESEARCH TOOL, LIST OTHER PRODUCTS, MANUFACTURED THROUGH 'FMS'

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GLOBALISATION

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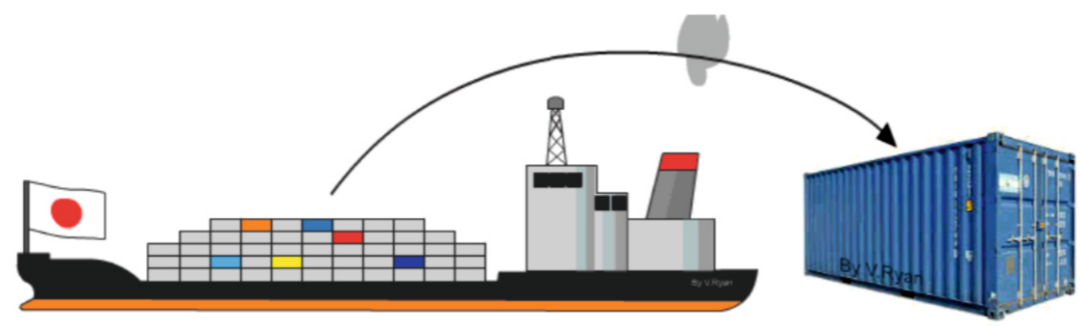
**ARE YOU READY?
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1 BRIEFLY, WHAT IS ' GLOBALISATION' ?

2 LIST ADVANTAGES OF GLOBALISATION

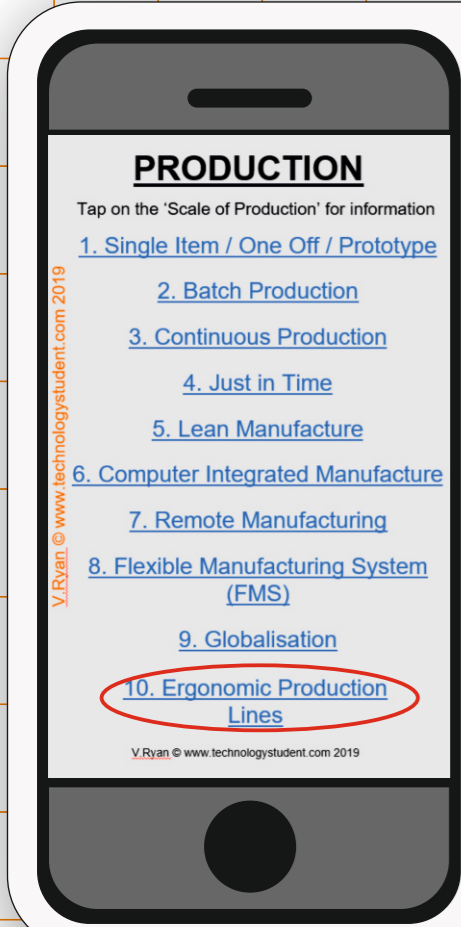
3 LIST DISADVANTAGES OF GLOBALISATION?

4 WHAT IS THE ROLE OF THE CONTAINER SHIP, IN TERMS OF GLOBALISATION.



5 USING THE INTERNET AS A RESEARCH TOOL, LIST PRODUCTS, MANUFACTURED THROUGH GLOBALISATION

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ERGONOMIC PRODUCTION LINES

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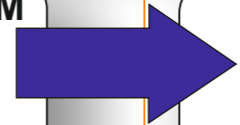
BRIEFLY, WHAT IS AN 'ERGONOMIC' PRODUCTION LINE?

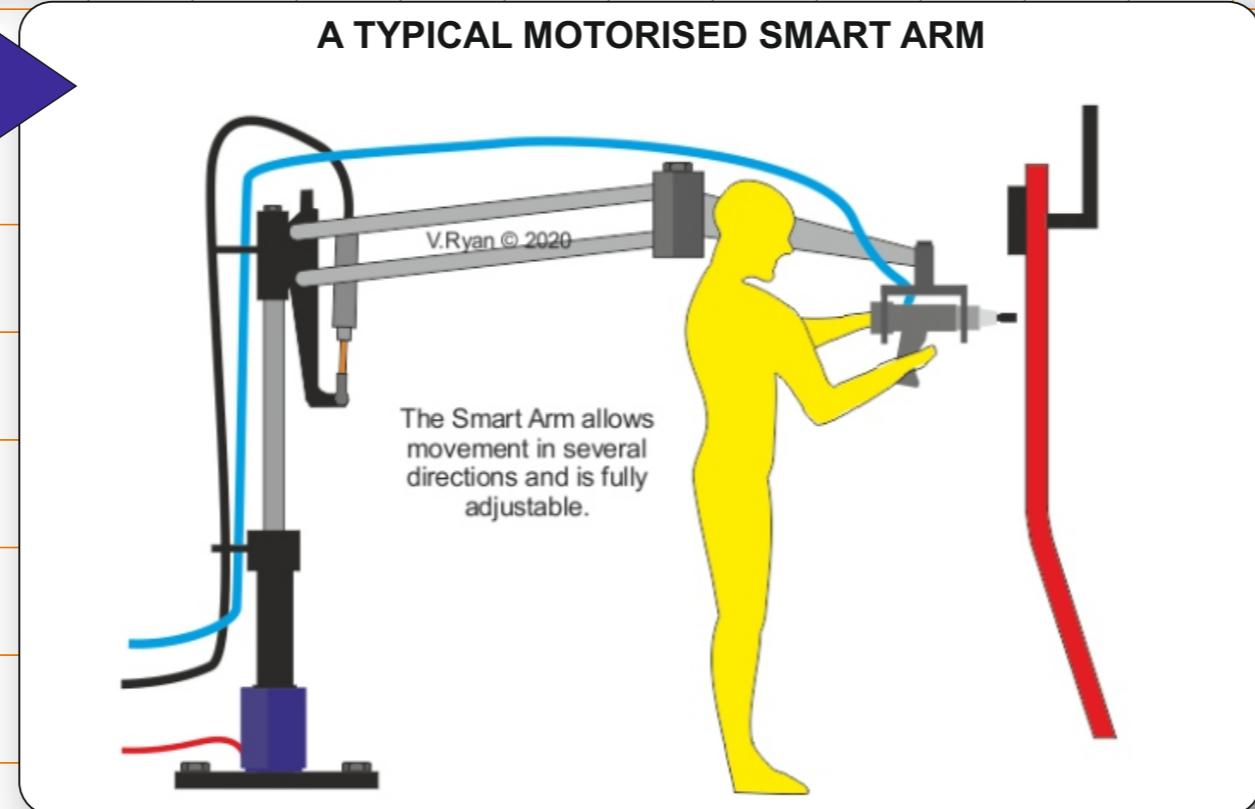
2

DESCRIBE A WORKSTATION, ON A TYPICAL ERGONOMIC PRODUCTION LINE.

3

WHY IS THIS MOTORISE SMART ARM CONSIDERED AS ERGONOMIC?





4

LIST THREE BENEFITS OF AN ERGONOMIC PRODUCTION LINE TO THE WORKER.

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